Summary of Changes since the September 2012 CLARC Update

The most recent updates to toxicity values in CLARC (186 were added, 36 were changed, 1 was deleted) are summarized in the three tables below. These resulted in corresponding changes to Method B and Method C calculated cleanup levels for associated environmental media.

Table 1 lists the number of newly added oral cancer potency factors (CPFo), inhalation cancer potency factors (CPFi), oral reference doses (RfDo), and inhalation reference doses (RfDi), while Table 2 summarizes the number of existing values that were changed. Table 3 lists the 36 specific values that were changed (and the one that was deleted) and indicates whether toxicity of the chemical increased or decreased compared to the previous entry, and by how much.

Information in the tables is broken down by the source of the updated information:

- I = IRIS (Integrated Risk Information System) database from the Environmental Protection Agency (EPA)
- H = HEAST = Health Effects Assessment Summary Table from EPA
- C = Cal EPA = California Environmental Protection Agency
- A = ATSDR = Agency for Toxic Substances and Disease Registry
- P = PPRTV = Provisional Peer-Reviewed Toxicity Values from EPA
- X = PPRTV Appendix from EPA
- S = Other EPA sources

Note that EPA removed the oral RfD for acetone cyanohydrin from IRIS since the last CLARC update. The oral RfD for chlorpyrifos has been changed in CLARC; EPA removed the oral RfD from IRIS, but a value from ATSDR has been substituted. These changes are included in Tables 2 and 3.

For changes to CLARC prior to the current update, see "History of Changes to CLARC (prior to 2012)" below.

Table 1 – Summary of Toxicity Values Added to CLARC since September 2012

Source	CPFo added	CPFi added	RfDo added	RfDi added	Totals
IRIS	1	2	3	4	10
Cal EPA	34	58	4	18	114
ATSDR	0	0	7	11	18
PPRTV	2	0	6	7	15
PPRTV Appendix	1	1	15	3	20
Other EPA	0	4	0	5	9
Totals	38	65	35	48	186

Table 2 – Summary of Toxicity Values Changed in CLARC since September 2012

Source	CPFo changed	CPFi changed	RfDo changed	RfDi changed	Totals
IRIS	2	1	10	0	13
Cal EPA	1	1	0	0	2
ATSDR	0	0	2	0	2
PPRTV	5	0	7	1	13
PPRTV Appendix	1	0	2	2	5
Other EPA	0	0	1	0	1
Totals	9	2	22	3	36

Table 3 – Detailed Changes to Toxicity Values in CLARC since September 2012

Chemical Name	Parameter	Old Value	Source	New Value	Source	Toxicity Increase/ Decrease (Approx)
dimethoxybenzidine;3,3'-	CPFo	1.4E-02	Н	1.6E+00	Р	114x ↑
dimethylaniline;2,4-	CPFo	7.5E-01	Н	2.0E-01	Р	4x ↓
hexachloroethane	CPFo	1.4E-02	- 1	4.0E-02	I	3x ↑
methyl-5-nitroaniline;2-	CPFo	3.3E-02	Н	9.0E-03	Р	4x ↓
methylene chloride	CPFo	7.5E-03	1	2.0E-03	ı	4x ↓
tcdd;2,3,7,8-	CPFo	1.5E+05	Н	1.3E+05	С	1.2x ↓
toluidine;p-	CPFo	1.9E-01	Н	3.0E-02	Р	6x ↓
trichloroaniline;2,4,6-	CPFo	3.4E-02	Н	7.0E-03	Χ	5x ↓
trimethyl phosphate	CPFo	3.7E-02	Н	2.0E-02	Р	2x ↓
hexachloroethane	CPFi	1.4E-02	Н	3.9E-02	С	3x ↑
methylene chloride	CPFi	1.7E-03	Н	3.5E-05	ı	50x ↓
acetone cyanohydrin	RfDo	3.0E-03	1	removed	I	
biphenyl;1,1-	RfDo	5.0E-02	1	5.0E-01	I	10x ↓
calcium cyanide	RfDo	4.0E-02	Н	1.0E-03	ı	40x ↑
chlorpyrifos	RfDo	3.0E-03	I	1.0E-03	Α	3x ↑
cresol;p-	RfDo	5.0E-03	Н	1.0E-01	Α	20x ↓
cyanide	RfDo	2.0E-02	1	6.0E-04	ı	33x ↑
cyanogen	RfDo	4.0E-02	I	1.0E-03	1	40x ↑
dichloroethane;1,2-	RfDo	2.0E-02	Н	6.0E-03	Χ	3x ↑
dinitrotoluene;2,6-	RfDo	1.0E-03	Н	3.0E-04	Χ	3x ↑
ethoxyethanol acetate;2-	RfDo	3.0E-01	Н	1.0E-01	Р	3x ↑
ethoxyethanol;2-	RfDo	4.0E-01	Н	9.0E-02	Р	4x ↑
ethylene cyanohydrin	RfDo	3.0E-02	Н	7.0E-02	Р	2x ↓
formic acid	RfDo	2.0E+00	Н	9.0E-01	Р	2x ↑
hexachloroethane	RfDo	1.0E-03	I	7.0E-04	1	1.5x ↑
methanol	RfDo	5.0E-01	ı	2.0E+00	ı	4x ↑
methoxyethanol acetate;2-	RfDo	2.0E-03	Н	8.0E-03	Р	4x ↑
methoxyethanol;2-	RfDo	3.0E-03	Н	5.0E-03	Р	1.7x ↓
methylene chloride	RfDo	6.0E-02	- 1	6.0E-03	1	10x ↑
potassium cyanide	RfDo	5.0E-02	- 1	2.0E-03	1	25x ↑
potassium silver cyanide	RfDo	2.0E-01	- 1	5.0E-03	1	40x ↑
sodium cyanide	RfDo	4.0E-02	1	1.0E-03	1	40x ↑
trinitrophenylmethylnitramine	RfDo	4.0E-03	Н	2.0E-03	Р	2x ↑
vanadium	RfDo	7.0E-05	Н	5.0E-03	S	71x ↓
acetone cyanohydrin	RfDi	1.7E-02	Н	5.7E-04	Χ	30x ↑
dichlorodifluoromethane	RfDi	5.7E-02	Н	2.9E-02	Χ	2x ↑
methacrylonitrile	RfDi	2.0E-04	Н	8.6E-03	Р	43x ↓

↑ = Increased Toxicity (22)

 \downarrow = Decreased Toxicity (14)

Changes based on Cal EPA or ATSDR

History of Changes to CLARC (prior to October 2012)

Sort by Date	Sort by Chemical		Sort by Parameter
Date of	Chemical		Parameter
Change	totas alala va atla da sa	Oval Dafara	TOO DOOG (DEDO)
9/26/2012	tetrachloroethylene	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous value:	1.E-02	mg/kg-day	
changed to:	6.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (September 2012)
			(Octionide 2012)
Date of Change	Chemical		Parameter
9/26/2012	tetrachloroethylene	Inhalation R	Reference Dose (RfDi)
	Changes Made	•	Comments
previous	see additional information	e 	Guidance is provided when toxicity values are
value:	see additional information		unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 2 on May 11
changed to:	1.1E-02	mg/kg-day	2011 3:54PM Updated CLARC toxicity values from IRIS or NCEA (September 2012)
Date of	Chemical		Parameter
Change		0.10	
9/26/2012	tetrachloroethylene	Oral Cance	r Potency Factor (CPFo)
	Changes Made		Comments
changed to:	2.1E-03	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (September 2012)
Date of	Chemical		Parameter
Change	Offermoat		i didilictei
9/26/2012	tetrachloroethylene	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made	e	Comments
changed to:	2.1E+01	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (September 2012)
Date of	Chemical		Parameter
Change	Chemical		raiametei
9/26/2012	tetrachloroethylene	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made	•	Comments
orevious	8.E+01	μg/L	Comments
value: changed to:	4.8E+01		Changes to CLARC cleanup levels based on updat
changed to.	4.0LT01	μg/L	toxicity values (September 2012)
Date of	Chemical		Parameter
Change			
9/26/2012	tetrachloroethylene	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
changed to:	Changes Made 2.1E+02	e μg/L	Comments Changes to CLARC cleanup levels based on updat toxicity values (September 2012)
	1		, , , , , , , , , , , , , , , , , , , ,
Date of Change	Chemical		Parameter
9/26/2012	tetrachloroethylene	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made	e	Comments
orevious	1.8E+02	μg/L	Commence
value: changed to:	1.1E+02	μg/L	
Date of	Chawinal		Doromotor
Date of Change	Chemical		Parameter
9/26/2012	tetrachloroethylene	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
	Channes M- I	•	Comments
	Changes Made	е	Comments

μg/L

Changes to CLARC cleanup levels based on updated

changed to:

1.E+02

			toxicity values (September 2012)
Date of	Chemical		Parameter
Change 9/26/2012	tetrachloroethylene	Surface Wa	ter, Method B, Non-Carcinogen, Standard Formula
changed to:	Changes Made 5.E+02	µg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of Change 9/26/2012	Chemical tetrachloroethylene	Parameter Surface Water, Method C, Carcinogen, Standard Formula V	
9/20/2012	,		
changed to:	Changes Made 2.5E+03	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of Change	Chemical	Parameter	
9/26/2012	tetrachloroethylene	Surface Water, Method C, Non-Carcinogen, Standard Formul Value	
changed to:	Changes Made 1.3E+03	μg/L	Comments Changes to CLARC cleanup levels based upon updated toxicity values (September 2012)
Date of	Chemical		Parameter
Change 9/26/2012	tetrachloroethylene		d B, Carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), unrestricted land use
changed to:	Changes Made 4.8E+02	mg/kg	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of Change	Chemical		Parameter
9/26/2012	tetrachloroethylene		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	8.E+02	mg/kg	
changed to:	4.8E+02	mg/kg	Updated CLARC toxicity values from IRIS or NCEA (September 2012)
Date of	Chemical		Parameter
Change 9/26/2012	tetrachloroethylene		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
changed to:	Changes Made 6.3E+04	mg/kg	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of	Chemical		Parameter
Change 9/26/2012	tetrachloroethylene	Parameter Soil, Method C, Non-carcinogen, Standard Fomula Value, Dire Contact (ingestion only), industrial land use	
	Changes Made		Comments
previous value:	3.5E+04	mg/kg	Undated CLARC toxicity values from IRIS or NCTA
changed to:	2.1E+04	mg/kg	Updated CLARC toxicity values from IRIS or NCEA (September 2012)
Date of Change	Chemical		Parameter
9/26/2012	trichloroethylene	Oral Refere	nce Dose (RfDo)
changed to:	Changes Made 5.E-04	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (September 2012)

	Chemical		Parameter
Change 9/26/2012	trichloroethylene	Inhalation F	Reference Dose (RfDi)
5120120 12	alonioroeutylette	minaiatiOH P	ACTOTOTICE DOGE (INIDI)
	Changes Made		Comments
changed to:	5.7E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
onangoa to	3.72 31	mg/kg day	(September 2012)
Date of	Chemical		Parameter
Change			
9/26/2012	trichloroethylene	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	5.4E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
			toxicity values (September 2012)
Date of	Chemical		Parameter
Change			
9/26/2012	trichloroethylene	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
		•	
	Changes Made		Comments
changed to:	9.4E+00	μg/L	Changes to CLARC cleanup levels based on updated
			toxicity values (September 2012)
Detact			Danamatan
Date of	Chemical		Parameter
Change	trioblogo ethyd eu-	Cf = 147	tor Method D. Corsing and Otto Ind Edit 1
9/26/2012	trichloroethylene	Surrace Wa	tter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
shanged to:	1.3E+01	/1	Changes to CLARC cleanup levels based on updated
changed to:	1.3E+01	μg/L	toxicity values (September 2012)
			toxicity values (September 2012)
Date of	Chemical		Parameter
Change			
9/26/2012	trichloroethylene	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	3.2E+02	μg/L	Changes to CLARC cleanup levels based on updated
			toxicity values (September 2012)
Date of	Chemical	1	Parameter
Change	Cileinicai		raiailletei
9/26/2012	trichloroethylene	Soil Metho	d B, Carcinogen, Standard Formula Value, Direct
3/20/2012	uncinoroeuryiene		gestion only), unrestricted land use
			,
	Changes Made		Comments
changed to:	1.2E+01	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (September 2012)
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Date of Change	Chemical		Parameter
	trichloroethylene	Soil Metho	d C. Carcinogen, Standard Formula Value, Direct
9/26/2012	trichloroethylene		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	trichloroethylene		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	trichloroethylene Changes Made		
	,		Comments Changes to CLARC cleanup levels based on updated
9/26/2012	Changes Made	Contact (ing	gestion only), industrial land use Comments
9/26/2012	Changes Made	Contact (ing	Comments Changes to CLARC cleanup levels based on updated
9/26/2012 changed to:	Changes Made 2.8E+03	Contact (ing	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
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	Chemical		Parameter
Change 9/26/2012	tetrachloroethylene	Inhalation (Cancer Potency Factor (CPFi)
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	Changes Made		Comments
changed to:	9.1E-04	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
changed to.	3.1L-0 1	kg-day/ilig	(September 2012)
		ı	(0.5)
Date of	Chemical		Parameter
Change			
9/26/2012	tetrachloroethylene	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	1.8E+01	μg/m3	Changes to CLARC cleanup levels based on updated
			toxicity values (September 2012)
Datasaf		T	D
Date of	Chemical		Parameter
Change		A: B4 (I	10.0
9/26/2012	tetrachloroethylene	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	9.6E+00	µg/m3	Changes to CLARC cleanup levels based on updated
			toxicity values (September 2012)
Det			
Date of	Chemical		Parameter
Change			
9/26/2012	tetrachloroethylene	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	4.E+01	μg/m3	Changes to CLARC cleanup levels based on updated
			toxicity values (September 2012)
Date of	Chemical		Parameter
Change			
9/26/2012	tetrachloroethylene	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	9.6E+01	μg/m3	Changes to CLARC cleanup levels based on updated
		1	
			toxicity values (September 2012)
			toxicity values (September 2012)
			toxicity values (September 2012)
Date of	Chemical		toxicity values (September 2012) Parameter
Change	Chemical		Parameter
	Chemical trichloroethylene	Air, Method	
Change		Air, Method	Parameter
Change		Air, Method	Parameter
Change 9/26/2012	trichloroethylene	Air, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments
Change 9/26/2012	trichloroethylene Changes Made		Parameter B, Non-Carcinogen, Standard Formula Value Comments
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Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00	μg/m3 Air, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of	Changes Made 9.E-01 Chemical trichloroethylene Changes Made	μg/m3 Air, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
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Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00	μg/m3 Air, Method μg/m3	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
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Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Changed to:	Chemical Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical	μg/m3 Air, Method μg/m3 Ground Wa	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Parameter
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene	μg/m3 Air, Method μg/m3 Ground Wa	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made	μg/m3 Air, Method μg/m3 Ground Way	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Comments
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made	μg/m3 Air, Method μg/m3 Ground Way	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 change	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00	μg/m3 Air, Method μg/m3 Ground Way	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made	μg/m3 Air, Method μg/m3 Ground Way	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00 Changes Made	μg/m3 Air, Method μg/m3 Ground Wa Value μg/L	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00	μg/m3 Air, Method μg/m3 Ground Wa Value μg/L Ground Wa	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00 Changes Made	μg/m3 Air, Method μg/m3 Ground Wa Value μg/L	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00 Chemical trichloroethylene	μg/m3 Air, Method μg/m3 Ground Wa Value μg/L Ground Wa	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method C, Non-carcinogen, Standard Formula Parameter Iter, Method C, Non-carcinogen, Standard Formula
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00 Chemical trichloroethylene Changes Made 4.E+00	μg/m3 Air, Method μg/m3 Ground Wa Value μg/L Ground Wa Value	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method C, Non-carcinogen, Standard Formula Comments Comments Comments Comments Comments
Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to: Date of Change 9/26/2012 changed to:	Changes Made 9.E-01 Chemical trichloroethylene Changes Made 2.E+00 Chemical trichloroethylene Changes Made 4.E+00 Chemical trichloroethylene	μg/m3 Air, Method μg/m3 Ground Wa Value μg/L Ground Wa	Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012) Parameter Iter, Method C, Non-carcinogen, Standard Formula Parameter Iter, Method C, Non-carcinogen, Standard Formula

Change	Chemical		Parameter
9/26/2012	trichloroethylene	Surface Wat Value	ter, Method B, Non-Carcinogen, Standard Formula
	Changes Made		Comments
changed to:	1.2E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of Change	Chemical		Parameter
9/26/2012	trichloroethylene	Surface Wat	ter, Method C, Non-Carcinogen, Standard Formula
changed to:	Changes Made 3.E+02	µg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of	Chemical		Parameter
Change 9/26/2012	trichloroethylene		B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), unrestricted land use
changed to:	Changes Made 4.E+01	mg/kg	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
Date of Change	Chemical		Parameter
9/26/2012	trichloroethylene	Soil, Method	d C, Non-carcinogen, Standard Fomula Value, Direct
			estion only), industrial land use
changed to:	Changes Made 1.8E+03	mg/kg	Comments Changes to CLARC cleanup levels based on updated toxicity values (September 2012)
			toxicity values (deptember 2012)
Date of Change	Chemical		Parameter
5/25/2011	dinitrotoluene mixture;2,4-/2,6-		C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
	Changes Made		Comments
changed to:	1.9E+02	mg/kg	
Date of	_	mg/kg	Changes to CLARC cleanup levels based on updated
Date of Change	1.9E+02	Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct
Date of Change	Chemical dinitrotoluene mixture;2,4-/2,6-	Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
Date of Change 5/25/2011	1.9E+02 Chemical	Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments
Date of Change 5/25/2011 changed to:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made	Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated
Date of Change 5/25/2011 Changed to:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00	Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 5/25/2011 Changed to:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical dinitrotoluene mixture;2,4-/2,6-	Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter December Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change to: Date of Change to: Date of Change 5/25/2011	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical	Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. B. Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter er, Method C, Carcinogen, Standard Formula Value Comments
Date of Change 5/25/2011 Changed to: Date of Change 5/25/2011 Change 5/25/2011 Change To: Date of Change To: Date of Change To:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made	Soil, Method Contact (ing mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. B. Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 5/25/2011 Changed to: Date of Change 5/25/2011 Change 6/25/2011 Change of Change to:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.3E+00	Soil, Method Contact (ing mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 5/25/2011 Changed to: Date of Change 5/25/2011 Change 6/25/2011 Changed to:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.3E+00 Chemical dinitrotoluene mixture;2,4-/2,6-	Soil, Method Contact (ing mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method B, Carcinogen, Standard Formula Value
Date of Change 5/25/2011 Change of Change 5/25/2011 Change of Change 5/25/2011	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.3E+00 Chemical	Soil, Method Contact (ing mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. B. Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Cer, Method B, Carcinogen, Standard Formula Value Parameter Ter, Method B, Carcinogen, Standard Formula Value Comments Comments
Changed to: Date of Change 5/25/2011 Change to: Date of Change 5/25/2011 Change to: Date of Change 5/25/2011 Change to:	Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.5E+00 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.3E+00 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made	Soil, Method Contact (ing mg/kg Ground Wat	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Ter, Method B, Carcinogen, Standard Formula Value Comments Cer, Method B, Carcinogen, Standard Formula Value Comments Comments Comments Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

	Changes Made		Comments
changed to:	6.8E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	1.9E-05	μg/m3	Changes to CLARC cleanup levels based on updated
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv-	alency factors wh	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change 5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture	Air, Method	B, Carcinogen, Standard Formula Value
			0
changed to:	Changes Made	μg/m3	Comments Changes to CLARC cleanup levels based on updated
•			toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
evaluations.	To non-out the conduction to		
Date of Change	Chemical		Parameter
5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use
	Changes Made		Comments
changed to:	2.1E-02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equive	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of Change	Chemical		Parameter
5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
changed to:	1.6E-04	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiva-	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of Change	Chemical		Parameter
5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture	Inhalation C	ancer Potency Factor (CPFi)
changed to:	Changes Made 4.6E+03	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 5/11/2011	Hexachlorodibenzo-p-dioxin,	Inhalation R	eference Dose (RfDi)
	Mixture		
previous	Changes Made Researched-No Data		Comments
value: changed to:	No Data. What are my options?		Changes to Hexachlorodibenzo-p-dioxin, mixture based on CLARC toxicity information
Date of Change	Chemical		Parameter
5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture	Oral Refere	nce Dose (RfDo)
0/11/2011	Changes Made		Comments
	Researched-No Data		
previous value: changed to:	_		Changes to Hexachlorodibenzo-p-dioxin, mixture based on CLARC toxicity information
previous value:	Researched-No Data		

5/11/2011	Hexachlorodibenzo-p-dioxin, Mixture	Oral Cancer	Potency Factor (CPFo)
changed to:	Changes Made 6.2E+03	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
5/11/2011	tcdd;2,3,7,8-	Inhalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
changed to:	No Data. What are my options?		Changes to tcdd;2,3,7,8- based on CLARC toxicity information
Date of	Chemical		Parameter
Change 5/11/2011	tcdd;2,3,7,8-	Inhalation R	eference Dose (RfDi)
previous	Changes Made Researched-No Data		Comments
value:			01
changed to:	No Data. What are my options?		Changes to tcdd;2,3,7,8- based on CLARC toxicity information
Date of	Chemical		Parameter
Change 5/44/2044	4-44.0.0.7.0	015 (nee Deep (DfD-)
5/11/2011	tcdd;2,3,7,8-	Oral Keterel	nce Dose (RfDo)
previous value:	Changes Made Researched-No Data		Comments
changed to:	No Data. What are my options?		Changes to tcdd;2,3,7,8- based on CLARC toxicity information
Date of Change	Chemical		Parameter
5/11/2011	tcdd;2,3,7,8-	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	Researched-No Data		Changes to tcdd;2,3,7,8- based on CLARC toxicity
Note: Click here to evaluations.	o review CLARC Guidance for toxicity equive	alency factors wh	information nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change			
5/11/2011	tcdd;2,3,7,8-	Air, Method	B, Carcinogen, Standard Formula Value
changed to:	Changes Made Researched-No Data		Comments Changes to tcdd;2,3,7,8- based on CLARC toxicity information
evaluations.	o review CLARC Guidance for toxicity equive	alency factors wr	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change 5/11/2011	benzo[a]pyrene	Air. Method	C, Carcinogen, Standard Formula Value
		,	
changed to:	Changes Made Researched-No Data		Comments Changes to Benzo(a)pyrene based on CLARC toxicity information
Date of	Chemical		Parameter
Change 5/11/2011	benzo[a]pyrene	Air Method	B, Carcinogen, Standard Formula Value
		,, Wiotilod	
changed to:	Changes Made Researched-No Data		Comments Changes to Benzo(a)pyrene based on CLARC toxicity information
Date of	Chemical		Parameter Parame
Change			
5/11/2011	indeno[1,2,3-cd]pyrene	Inhalation C	ancer Potency Factor (CPFi)
	Observate Marks		Comments
previous	Changes Made Researched-No Data		Comments

No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Chemical		Parameter
dibenzo[a,h]anthracene	Inhalation Ca	ncer Potency Factor (CPFi)
-		Comments
No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Ohamiaal		Danamatan
Cnemical		Parameter
chrysene	Inhalation Ca	ncer Potency Factor (CPFi)
Changes Made Researched-No Data		Comments
No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Chemical		Parameter
benzo[k]fluoranthene	Inhalation Ca	ncer Potency Factor (CPFi)
Change Med-		Commonto
Researched-No Data		Comments
No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Ol aminat	I	Danamatan
Cnemical		Parameter
benzo[b]fluoranthene	Inhalation Ca	ncer Potency Factor (CPFi)
Changes Made		Comments
Researched-No Data		
No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Chemical		Parameter
benzo[a]anthracene	Inhalation Ca	ncer Potency Factor (CPFi)
Changes Made		Comments
Researched-No Data		
No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Chemical		Parameter
benzo[a]pyrene	Inhalation Ca	ncer Potency Factor (CPFi)
Changes Made		Comments
No Data. What are my options?		Changes to cPAHs based on CLARC toxicity information
Chemical		Parameter
indeno[1,2,3-cd]pyrene	Inhalation Re	ference Dose (RfDi)
Change Made		Comments
Researched-No Data		Comments
	Changes Made Researched-No Data No Data. What are my options? Chemical Chrysene Changes Made Researched-No Data No Data. What are my options? Chemical benzo[k]fluoranthene Changes Made Researched-No Data No Data. What are my options? Chemical benzo[b]fluoranthene Changes Made Researched-No Data No Data. What are my options? Chemical benzo[b]fluoranthene Changes Made Researched-No Data No Data. What are my options? Chemical benzo[a]anthracene Changes Made Researched-No Data No Data. What are my options? Chemical benzo[a]pyrene Changes Made No Data. What are my options?	Changes Made Researched-No Data No Data. What are my options? Changes Made Researched-No Data No Data. What are my options? Changes Made Researched-No Data No Data. What are my options? Chemical benzo[k]fluoranthene Inhalation Ca Changes Made Researched-No Data No Data. What are my options? Chemical benzo[b]fluoranthene Inhalation Ca Changes Made Researched-No Data No Data. What are my options? Changes Made Researched-No Data No Data. What are my options? Chemical benzo[a]anthracene Inhalation Ca Changes Made Researched-No Data No Data. What are my options? Chemical benzo[a]pyrene Inhalation Ca Changes Made Researched-No Data No Data. What are my options? Inhalation Ca Changes Made No Data. What are my options? Chemical Inhalation Ca Changes Made No Data. What are my options?

Date of	Chemical	Parameter
Change 5/11/2011	dibenzo[a,h]anthracene	Inhalation Reference Dose (RfDi)
		,
	Changes Made	Comments
previous	Researched-No Data	Comments
value: changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity
oriangou to.	No Data. What are my options:	information
Date of	Chemical	Parameter
Change 5/11/2011	chrysene	Inhalation Reference Dose (RfDi)
previous	Changes Made Researched-No Data	Comments
value:	1	OL
changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
Date of	Chemical	Parameter
Change 5/11/2011	benzo[k]fluoranthene	Inhalation Reference Dose (RfDi)
J/ 1 1/ 2 U I I	Denzo[N]IIIOIaIIIIIeIIe	IIIII AI A
provious	Changes Made	Comments
previous value:	Researched-No Data	
changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
Date of	Chemical	Parameter
Change		
5/11/2011	benzo[b]fluoranthene	Inhalation Reference Dose (RfDi)
	Changes Made	Comments
previous value:	Researched-No Data	
changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
		IIIIOIIIIalioii
Date of	Chemical	Parameter
Change	Chemicai	Parameter
5/11/2011	benzo[a]anthracene	Inhalation Reference Dose (RfDi)
	Changes Made	Comments
previous	Researched-No Data	
value: changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity
		information
Date of Change	Chemical	Parameter
5/11/2011	benzo[a]pyrene	Inhalation Reference Dose (RfDi)
	Changes Made	Comments
previous	Researched-No Data	Communica
value: changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity
<u> </u>		information
Date of Change	Chemical	Parameter
5/11/2011	indeno[1,2,3-cd]pyrene	Oral Reference Dose (RfDo)
	Changes Made	Comments
previous value:	Researched-No Data	
changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
		IIIIOIIIIaliOII
Date of		_
	Chaminal	Deve
Change	Chemical	Parameter
	Chemical dibenzo[a,h]anthracene	Oral Reference Dose (RfDo)

	Changes Made	Comments
previous	Researched-No Data	
value: changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
Date of Change	Chemical	Parameter
5/11/2011	chrysene	Oral Reference Dose (RfDo)
		()
	Changes Made	Comments
previous	Researched-No Data	
value: changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
Date of	Chemical	Parameter
Change		
5/11/2011	benzo[k]fluoranthene	Oral Reference Dose (RfDo)
previous	Changes Made Researched-No Data	Comments
previous value:	KESEAICHEU-NO DATA	
changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
Date of	Chemical	Parameter
Change		
5/11/2011	benzo[b]fluoranthene	Oral Reference Dose (RfDo)
	Changes Mad-	Commants
nrevious	Changes Made Researched-No Data	Comments
previous value:	NESEGICIEU-NU DALA	
changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
Date of	Chemical	Parameter
Change		
5/11/2011	benzo[a]anthracene	Oral Reference Dose (RfDo)
	Changes Made	Comments
previous	Researched-No Data	Comments
value: changed to:	No Data. What are my options?	Changes to cPAHs based on CLARC toxicity information
	No Data. What are my options?	
changed to: Date of	No Data. What are my options? Chemical	
Changed to: Date of Change	Chemical	information Parameter
Changed to: Date of Change		information
Changed to: Date of Change	Chemical benzo[a]pyrene	Parameter Oral Reference Dose (RfDo)
Date of Change 5/11/2011	Chemical benzo[a]pyrene Changes Made	information Parameter
Date of Change 5/11/2011 previous	Chemical benzo[a]pyrene	Parameter Oral Reference Dose (RfDo)
Date of Change 5/11/2011 previous value:	Chemical benzo[a]pyrene Changes Made	Parameter Oral Reference Dose (RfDo)
Date of Change 5/11/2011 previous value: changed to:	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options?	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information
Date of Change 5/11/2011 previous value: changed to: Date of	Chemical benzo[a]pyrene Changes Made Researched-No Data	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity
changed to:	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options?	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information
Date of Change 5/11/2011 previous value: changed to: Date of Change	Chemical Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011	Chemical Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 changed to:	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 Change to:	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made see additional information	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC guidance document
Date of Change 5/11/2011 previous value: changed to: Date of Change	Chemical benzo[a]pyrene Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made see additional information	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC guidance document
Date of Change 5/11/2011 Date of Change 5/11/2011 Date of Change 5/11/2011 changed to: Date of Change 6/11/2011	Chemical Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made see additional information Chemical vinyl chloride	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC guidance document Parameter Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use
Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 change to:	Chemical Changes Made Researched-No Data No Data. What are my options? Chemical vinyl chloride Changes Made see additional information Chemical	Parameter Oral Reference Dose (RfDo) Comments Changes to cPAHs based on CLARC toxicity information Parameter Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Comments Changes to Viny Chloride based on CLARC guidance document Parameter Soil, Method B, Carcinogen, Standard Formula Value, Direct

Date of Change	Chemical	Parameter
5/11/2011	vinyl chloride	Air, Method C, Carcinogen, Standard Formula Value
3/11/2011	VIII CHIONGE	All, Method C, Carcinogen, Standard Formula Value
changed to:	Changes Made see additional information	Comments Changes to Viny Chloride based on CLARC guidance document
Date of Change	Chemical	Parameter
5/11/2011	vinyl chloride	Air, Method B, Carcinogen, Standard Formula Value
	Changes Made	Comments
changed to:	see additional information	Changes to Viny Chloride based on CLARC
		guidance document
Date of	Chemical	Parameter
Change		
5/11/2011	vinyl chloride	Surface Water, Method C, Carcinogen, Standard Formula Value
	Changes Made	Comments
changed to:	see additional information	Changes to Viny Chloride based on CLARC guidance document
Date of	Chemical	Parameter
Change 5/11/2011	vinyl chloride	Surface Water, Method B, Carcinogen, Standard Formula Value
O(1 1/2 U I I	Anyi onionao	
changed to:	Changes Made see additional information	Comments Changes to Viny Chloride based on CLARC guidance document
Date of	Chemical	Parameter
Change 5/11/2011	vinyl chloride	Ground Water, Method C, Carcinogen, Standard Formula Value
3/11/2011	VIII CHIONAE	Ground Water, Method C, Carcinogen, Standard Formula Value
changed to:	Changes Made see additional information	Comments Changes to Viny Chloride based on CLARC guidance document
Date of Change	Chemical	Parameter
5/11/2011	vinyl chloride	Ground Water, Method B, Carcinogen, Standard Formula Value
changed to:	Changes Made see additional information	Comments Changes to Viny Chloride based on CLARC guidance document
		galdanie desament
	-	
Date of Change	Chemical	Parameter
5/11/2011	vinyl chloride	Inhalation Cancer Potency Factor (CPFi)
changed to:	Changes Made see additional information	Comments Changes to Viny Chloride based on CLARC
onangeu io.	SEE AUUILIOHAI IHIOHHALION	guidance document
Date of	Chemical	Parameter
Change		
5/11/2011	vinyl chloride	Oral Cancer Potency Factor (CPFo)
changed to:	Changes Made see additional information	Comments Changes to Viny Chloride based on CLARC guidance document
Data of	Chemical	Paramatar
Date of	Gnemical	Parameter
Change		Surface Water, Method C, Carcinogen, Standard Formula Value
Change 5/11/2011	tcdd;2,3,7,8-	
	Changes Made	Comments

Date of Change	Chemical	Parameter	
5/11/2011	tcdd;2,3,7,8-	Surface Water, Method B, Carcinogen, Standard Formula	
		1	<u> </u>
changed to:	Changes Made 8.6E-09	μg/L	Comments Changes to CLARC cleanup levels based on updated
Note: Click here to evaluations.	to review CLARC Guidance for toxicity equi	valency factors wh	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	4-440070	Coil Mothes	C. Carainagae Ctandard Farmula Valua Dinat
5/11/2011	tcdd;2,3,7,8-		d C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
changed to:	Changes Made 1.5E-03	mg/kg	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
	ds B & C, Carcinogen, Standard Formula Va 5,7,8-) based on Gastrointestinal absorption		act (ingestion only) soil cleanup levels for 2,3,7,8 - tetrachlorodibenzo
Date of Change	Chemical		Parameter
5/11/2011	tcdd;2,3,7,8-		d B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
changed to:	1.1E-05	mg/kg	Changes to CLARC cleanup levels based on updated
Noto: Soil Motho	do P. C. Carainagan, Standard Formula V	alua Direct Cente	toxicity values (December 2010)
	ds B & C, Carcinogen, Standard Formula Vi 1,7,8-) based on Gastrointestinal absorption		act (ingestion only) soil cleanup levels for 2,3,7,8 - tetrachlorodibenzo 0.6, unitless.
Date of	Chemical		Parameter
Change 5/11/2011	todd:2 2 7 9	Ground Med	tar Mathad C Carainagan Standard Farmula Value
0/11/2011	tcdd;2,3,7,8-	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	5.8E-06	μg/L	Changes to CLARC cleanup levels based on updated
onangou to:	5.02 00	P9/ L	toxicity values (December 2010)
Note: Click here to evaluations.	o review CLARC Guidance for toxicity equi	valency factors wh	nen congener-specific analysis is conducted for site-specific
evaluations.			
Date of	Chemical		Parameter
Change			
5/11/2011	tcdd;2,3,7,8-	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	Changes Made	ug/l	Comments Changes to CLARC cleanup levels based on undated
changed to:	Changes Made 5.8E-07	μg/L	
Note: Click here	5.8E-07		Changes to CLARC cleanup levels based on updated
Note: Click here	5.8E-07		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	5.8E-07		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations. Date of Change	5.8E-07 to review CLARC Guidance for toxicity equiv		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Note: Click here to evaluations. Date of Change	5.8E-07 to review CLARC Guidance for toxicity equiv	valency factors wh	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
changed to: Note: Click here revaluations. Date of Change 5/11/2011 changed to:	5.8E-07 To review CLARC Guidance for toxicity equitable Chemical	valency factors wh	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter
Note: Click here to evaluations. Date of Change 5/11/2011 changed to:	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05	oral Cancer	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA
Note: Click here revaluations. Date of Change 5/11/2011 changed to:	5.8E-07 to review CLARC Guidance for toxicity equitable Chemical tcdd;2,3,7,8- Changes Made	oral Cancer	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05 Chemical	Oral Cancer kg-day/mg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05	Oral Cancer kg-day/mg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Len congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05 Chemical indeno[1,2,3-cd]pyrene	Oral Cancer kg-day/mg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change 5/11/2011	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05 Chemical	Oral Cancer kg-day/mg Surface Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change 5/11/2011	Chemical Chemical Changes Made 1.5E+05 Changes Made 1.4E+00	valency factors where	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
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Date of Change 5/11/2011 Change 5/11/2011 Change 6/11/2011 Change 6/11/2011 Change 6/11/2011 Change 6/11/2011	Chemical Chemical Changes Made 1.5E+05 Changes Made 1.4E+00 Changes Made 7.4E+00 Chemical Changes Made Changes Made	Valency factors where	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Ten congener-specific analysis is conducted for site-specific Parameter
Note: Click here revaluations. Date of Change 5/11/2011 Changed to: Date of Change 5/11/2011 Change 5/11/2011	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05 Changes Made 1.5E+05 Changes Made 1.74E+00 Co review CLARC Guidance for toxicity equivalent to	Valency factors where	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) en congener-specific analysis is conducted for site-specific
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change 5/11/2011 change to: Note: Click here revaluations.	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05 Changes Made 1.5E+00 Changes Made 7.4E+00 co review CLARC Guidance for toxicity equitors are review CLARC Guidance for toxicity equitors are review CLARC Guidance for toxicity equitors are review classes.	Valency factors where	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter congener-specific analysis is conducted for site-specific Parameter ter, Method B, Carcinogen, Standard Formula Value
Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change 5/11/2011 changed to: Note: Click here revaluations. Date of Change 5/11/2011	Chemical Chemical Changes Made 1.5E+05 Changes Made 1.4E+00 Chemical indeno[1,2,3-cd]pyrene Chemical indeno[1,2,3-cd]pyrene Chemical indeno[1,2,3-cd]pyrene	Valency factors where	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) In congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) In congener-specific analysis is conducted for site-specific Parameter ter, Method B, Carcinogen, Standard Formula Value Comments
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Note: Click here revaluations. Date of Change 5/11/2011 changed to: Date of Change 5/11/2011 changed to: Note: Click here revaluations. Date of Change 5/11/2011	Chemical tcdd;2,3,7,8- Changes Made 1.5E+05 Changes Made 1.5E+00 Changes Made 7.4E+00 Chemical indeno[1,2,3-cd]pyrene Changes Made 7.4E+00 Chemical indeno[1,2,3-cd]pyrene Changes Made 3.E-01 co review CLARC Guidance for toxicity equivalence for toxicity equiva	Valency factors where	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) len congener-specific analysis is conducted for site-specific Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) len congener-specific analysis is conducted for site-specific Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) len congener-specific analysis is conducted for site-specific len congener-specific analysis is conducted for site-specific
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	Changes Mad	le	Comments
changed to:	1.8E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

evaluations.

Date of Change	Chemical	Parameter
5/11/2011	indeno[1,2,3-cd]pyrene	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
changed to:	1.4E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
5/11/2011	indeno[1,2,3-cd]pyrene	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
changed to:	1.2E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
5/11/2011	indeno[1,2,3-cd]pyrene	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
changed to:	1.2E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
5/11/2011	indeno[1,2,3-cd]pyrene	Oral Cancer Potency Factor (CPFo)

	Changes Made		Comments
changed to:	7.3E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
5/11/2011	dibenzo[a,h]anthracene	Surface Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
changed to:	7.4E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
5/11/2011	dibenzo[a,h]anthracene	Surface Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
changed to:	3.E-02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
5/11/2011	dibenzo[a,h]anthracene	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
changed to:	1.8E+01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
5/11/2011	dibenzo[a,h]anthracene	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

Changes Made		Comments
1.4E-01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
review CLARC Guidance for toxicity equiv	valency factors wh	nen congener-specific analysis is conducted for site-specific
Chemical		Parameter
- Uhannafa handhun ann	One weed M/s	ton Mathad C. Carring and Chardent Formula Value
dibenzo[a,h]anthracene	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
Changes Made		Comments
1.2E-01	μg/L	Changes to CLARC cleanup levels based on updated
review CLARC Guidance for toxicity equiv	valency factors wl	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Chemical		Parameter
	100	
dibenzo[a,h]anthracene	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
Changes Made		Comments
1.2E-02	μg/L	Changes to CLARC cleanup levels based on updated
review CLARC Guidance for toxicity equiv	valencv factors w	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Town OE are education to towns, equi		Total soriginal appealing analysis is contacted for one opening
Chemical		Parameter
dibenzo[a,h]anthracene	Oral Cance	r Potency Factor (CPFo)
Changes Made	les day/sass	Comments Lindoted CLARC toxisity values from IRIC or NICEA
7.3E+00	kg-uay/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Chemical		Parameter
chrysene	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
Changes Made		Comments
_	µg/L valency factors wh	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Chemical		Parameter
chrysene	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
Onlysone	Carrace Wa	tor, Motrica D, Garoniogen, Standard Formula Value
Changes Made		Comments
3.E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
review CLARC Guidance for toxicity equiv	valency factors wl	nen congener-specific analysis is conducted for site-specific
Chemical		Parameter
	Coil Motho	
Chrysene		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
Changes Made		Comments
1.8E+04	malka	
	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		toxicity values (December 2010)
review CLARC Guidance for toxicity equiv	valency factors when the soil, Method	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct
review CLARC Guidance for toxicity equiv	valency factors when the soil, Method	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter
Chemical chrysene Changes Made	Soil, Method	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments
Chemical chrysene Changes Made 1.4E+02	Soil, Method Contact (ing	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments
Chemical chrysene Changes Made 1.4E+02 review CLARC Guidance for toxicity equiv	Soil, Method Contact (ing	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter B. Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Chemical chrysene Changes Made 1.4E+02	Soil, Method Contact (ing	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical chrysene Changes Made 1.4E+02 review CLARC Guidance for toxicity equiv	Soil, Method Contact (incomplete mg/kg	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter B. Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Chemical Changes Made 1.4E+02 Chemical Changes Made Changes Made	Soil, Method Contact (incomplete mg/kg	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific Parameter
	Chemical Chemical Chemical Changes Made 1.2E-01 Chemical Changes Made 1.2E-02 Chemical Chemical Chemical Chemical Chemical Chemical Changes Made 1.2E-02 Teview CLARC Guidance for toxicity equivors Chemical Chemical Changes Made 7.3E+00 Chemical Chrysene Changes Made 7.4E+02 Teview CLARC Guidance for toxicity equivors Chemical Chrysene Changes Made 7.4E+01 Chemical Chrysene Changes Made 3.E+01 Teview CLARC Guidance for toxicity equivors Chemical Chrysene Changes Made	Chemical Chemical Changes Made 1.2E-01 Changes Made 1.2E-02 Chemical dibenzo[a,h]anthracene Changes Made 1.2E-02 review CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity equivalency factors with the proview CLARC Guidance for toxicity eq

evaluations.			
Date of Change	Chemical		Parameter
5/11/2011	chrysene	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	1.2E+01	μg/L	Changes to CLARC cleanup levels based on updated
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv	alency factors wh	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change		010	D. () () () () ()
5/11/2011	chrysene	Oral Cancel	r Potency Factor (CPFo)
	Changes Made		Comments
changed to:	7.3E-03	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
		'	
Date of	Chemical		Parameter
Change			
5/11/2011	benzo[k]fluoranthene	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	7.4E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change 5/11/2011	benzo[k]fluoranthene	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
S/11/2011		Carrace vva	,
changed to:	Changes Made 3.E+00	ug/I	Comments Changes to CLARC cleanup levels based on updated
		μg/L	toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	Chemical		raiametei
5/11/2011	benzo[k]fluoranthene		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
		Contact (ing	gestion only), industrial failu use
changed to:	Changes Made 1.8E+03	mg/kg	Comments Changes to CLARC cleanup levels based on updated
_			toxicity values (December 2010)
evaluations.	Teview CLARC Guidance for toxicity equiv	alericy factors wi	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change			
5/11/2011	benzo[k]fluoranthene		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
changed to:	Changes Made 1.4E+01	mg/kg	Comments Changes to CLARC cleanup levels based on updated
_			toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
evaluations.	TONOW SERVICE GUIDANCE TO TOXICITY EQUIV	alonoy lactors Wi	.c., congener opound analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	h annaffaffi annaff an a	0	ton Mathad C. Carring ray City In 15
5/11/2011	benzo[k]fluoranthene	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	1.2E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change 5/11/2011	benzo[k]fluoranthene	Ground Was	ter, Method B, Carcinogen, Standard Formula Value
0/11/2011		Cround Wa	
obongs d 4-:	Changes Made	/!	Changes to CLAPC cleanup levels based on undeted
changed to:	1.2E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Data of	Chaminal		Parameter
Date of Change	Chemical		Parameter
5/11/2011	benzo[k]fluoranthene	Oral Cancer	r Potency Factor (CPFo)
	Changes Made		Comments

changed to: 7.3E-02 kg-day/mg Updated CLARC toxicity values from IRIS or NCEA (December 2010) Date of Chemical **Parameter** Change 5/11/2011 benzo[b]fluoranthene Surface Water, Method C, Carcinogen, Standard Formula Value **Changes Made** Comments changed to: 7.4E + 00μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific Date of Chemical **Parameter** Change 5/11/2011 benzo[b]fluoranthene Surface Water, Method B, Carcinogen, Standard Formula Value **Changes Made** Comments Changes to CLARC cleanup levels based on updated changed to: 3.E-01 μg/L toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations. Date of Chemical **Parameter** Change 5/11/2011 benzo[b]fluoranthene Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use **Changes Made** Comments changed to: Changes to CLARC cleanup levels based on updated 1.8E+02 mg/kg toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations Date of Parameter Chemical Change 5/11/2011 benzo[b]fluoranthene Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use **Changes Made** Comments Changes to CLARC cleanup levels based on updated changed to: 1.4E+00 mg/kg toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations Date of Chemical **Parameter** Change 5/11/2011 benzo[b]fluoranthene Ground Water, Method C, Carcinogen, Standard Formula Value **Changes Made** Comments 1.2E+00 Changes to CLARC cleanup levels based on updated changed to: μg/L toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations Date of Chemical **Parameter** Change Ground Water, Method B, Carcinogen, Standard Formula Value 5/11/2011 benzo[b]fluoranthene **Changes Made** Comments changed to: 1.2E-01 Changes to CLARC cleanup levels based on updated μg/L toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations. Date of Chemical **Parameter** Change 5/11/2011 benzo[b]fluoranthene Oral Cancer Potency Factor (CPFo) **Changes Made** Comments changed to: Updated CLARC toxicity values from IRIS or NCEA 7.3E-01 kg-day/mg (December 2010) Date of Chemical **Parameter** Change 5/11/2011 benzo[a]anthracene Surface Water, Method C, Carcinogen, Standard Formula Value **Changes Made** Comments changed to: Changes to CLARC cleanup levels based on updated 7.4E + 00μg/L toxicity values (December 2010) Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations **Parameter** Date of Chemical Change 5/11/2011 benzo[a]anthracene Surface Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
changed to:	3.E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	o review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change			
5/11/2011	benzo[a]anthracene		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	Changes Made		Comments
changed to:	1.8E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	o review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change		Cail Matha	
5/11/2011	benzo[a]anthracene		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
changed to:	1.4E+00	mg/kg	Changes to CLARC cleanup levels based on updated
Note: Click here to evaluations.	o review CLARC Guidance for toxicity equiv	alency factors wh	toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
	Chamissi		Davameter
Date of Change	Chemical		Parameter
5/11/2011	benzo[a]anthracene	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	1.2E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Note: Click here to evaluations.	review CLARC Guidance for toxicity equiv	alency factors wh	nen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change 5/11/2011	benzo[a]anthracene	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
5/11/2011		Ground wa	
changed to:	Changes Made 1.2E-01 preview CLARC Guidance for toxicity equiv	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) nen congener-specific analysis is conducted for site-specific
evaluations.			
Date of	Chemical		
Change			Parameter
	benzo[a]anthracene	Oral Cancer	Parameter r Potency Factor (CPFo)
		Oral Cancer	r Potency Factor (CPFo)
5/11/2011	benzo[a]anthracene Changes Made 7.3E-01	Oral Cancer	Comments Updated CLARC toxicity values from IRIS or NCEA
5/11/2011	Changes Made		r Potency Factor (CPFo) Comments
5/11/2011 changed to:	Changes Made 7.3E-01		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
5/11/2011 changed to: Date of Change	Changes Made 7.3E-01 Chemical	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
5/11/2011 changed to: Date of Change	Changes Made 7.3E-01	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
5/11/2011 changed to: Date of Change 5/11/2011	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
5/11/2011 changed to: Date of Change 5/11/2011 previous value:	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made Researched-No Data	kg-day/mg Oral Cancer	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments
5/11/2011 changed to: Date of Change 5/11/2011 previous value:	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo)
changed to: Date of Change 5/11/2011 previous value: changed to:	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00	kg-day/mg Oral Cancer	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
5/11/2011 changed to: Date of Change 5/11/2011 previous value: changed to: Date of	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made Researched-No Data	kg-day/mg Oral Cancer	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA
changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00	kg-day/mg Oral Cancer kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change	Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00 Chemical	kg-day/mg Oral Cancer kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Change 5/11/2011 changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 previous value: changed to:	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00 Chemical aroclor 1016	kg-day/mg Oral Cancer kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Parameter Parameter Parameter Potency Factor (CPFo)
changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 previous value: changed to:	Changes Made 7.3E-01 Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00 Chemical aroclor 1016 Changes Made	kg-day/mg Oral Cancer kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Parameter Parameter Parameter Potency Factor (CPFo)
5/11/2011 changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011	Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00 Chemical aroclor 1016 Changes Made Researched-No Data 7.E-02	kg-day/mg Oral Cancel kg-day/mg Oral Cancel	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Comments Updated CLARC toxicity values from IRIS or NCEA
changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011	Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00 Chemical aroclor 1016 Changes Made Researched-No Data 7.E-02 Chemical	kg-day/mg Oral Cancer kg-day/mg Oral Cancer	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
changed to: Date of Change 5/11/2011 previous value: changed to: Date of Change 5/11/2011 previous value: changed to:	Chemical aroclor 1254 Changes Made Researched-No Data 2.E+00 Chemical aroclor 1016 Changes Made Researched-No Data 7.E-02	kg-day/mg Oral Cancer kg-day/mg Oral Cancer	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Updated CLARC toxicity values from IRIS or NCEA (December 2010)

changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	xylenes	Air, Method	C, Non-carcinogen, Standard Formula Value
	<u> </u>		
previous value:	Changes Made 1.E+02	μg/m3	Comments
changed to:	1.E+02	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	xylenes	Air Method	B, Non-Carcinogen, Standard Formula Value
4/10/2011	Aylonos	All, Wellou	2, Non Carcinogen, Clandard Formula Value
previous	Changes Made 4.6E+01	μg/m3	Comments
value: changed to:	4.6E+01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Date of Change	Chemical		Parameter
4/13/2011	xylenes	Inhalation R	eference Dose (RfDi)
changed to:	Changes Made 2.9E-02	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	xylene;o-	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	xylene;o-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	Changes Made Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	xylene;o-	Soil Method	d C, Non-carcinogen, Standard Fomula Value, Direct
4/13/2011	Aylene,o-		pestion only), industrial land use
previous	Changes Made 7.E+06	mg/kg	Comments
value: changed to:	7.E+05	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Character	xylene;o-	Soil, Method	d B, Non-carcinogen, Standard Formula Value, Direct
	Aylerie,0-		pestion only), unrestricted land use
	Aylene,o-	Contact (ing	
		Contact (ing	Comments
4/13/2011 previous	Changes Made 1.6E+05	mg/kg	Comments
4/13/2011 previous value:	Changes Made		
4/13/2011 previous value: changed to:	Changes Made 1.6E+05	mg/kg	Changes to CLARC cleanup levels based on update
previous value: changed to: Date of Change	Changes Made 1.6E+05 1.6E+04 Chemical	mg/kg mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change	Changes Made 1.6E+05 1.6E+04	mg/kg mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 1.6E+05 1.6E+04 Chemical	mg/kg mg/kg Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter

	3.5E+03	µg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change		_	
4/13/2011	xylene;o-	Ground Wat Value	er, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	1.6E+04	μg/L	
changed to:	1.6E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	xylene;o-	Oral Refere	nce Dose (RfDo)
1/10/2011	Aylene,e	O TOTAL TROIDING	100 2000 (1120)
	Changes Made		Comments
changed to:	2.E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	xylene;o-	Inhalation R	eference Dose (RfDi)
			, , ,
	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	<u> </u>	A: B4 d	0.1.15
4/13/2011	xylene;m-	Air, Method	C, Non-carcinogen, Standard Formula Value
changed to:	Changes Made Researched-No Data		Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Officialical		T drameter
4/13/2011	xylene;m-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
r The Care Co. C.			
	vylene:m-	Soil Method	I.C. Non-carcinogen, Standard Fomula Value, Direct
	xylene;m-		I C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
	xylene;m- Changes Made		
4/13/2011 previous			estion only), industrial land use
4/13/2011 previous value:	Changes Made	Contact (ing	estion only), industrial land use
4/13/2011 previous value:	Changes Made 7.E+06	Contact (ing	Comments Changes to CLARC cleanup levels based on updated
4/13/2011 previous value: changed to:	Changes Made 7.E+06	Contact (ing	Comments Changes to CLARC cleanup levels based on updated
previous value: changed to:	7.E+06 7.E+05	mg/kg mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
previous value: changed to:	Changes Made 7.E+06 7.E+05 Chemical	mg/kg mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-carcinogen, Standard Formula Value, Direct
previous value: changed to: Date of Change 4/13/2011	Changes Made 7.E+06 7.E+05 Chemical xylene;m-	mg/kg mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 7.E+06 7.E+05 Chemical xylene;m-	mg/kg mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 7.E+06 7.E+05 Chemical xylene;m- Changes Made 1.6E+05 1.6E+04	mg/kg mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 7.E+06 7.E+05 Chemical xylene;m- Changes Made 1.6E+05	mg/kg mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 7.E+06 7.E+05 Chemical xylene;m- Changes Made 1.6E+05 1.6E+04	mg/kg mg/kg Soil, Method Contact (ing mg/kg mg/kg	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

previous	3.5E+04	μg/L	
value: changed to:	3.5E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Officialical		rarameter
4/13/2011	xylene;m-	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
previous	Changes Made 1.6E+04	μg/L	Comments
value: changed to:	1.6E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical	Parameter	
Change			
4/13/2011	xylene;m-	Oral Refere	nce Dose (RfDo)
changed to:	Changes Made 2.E-01	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	xylene;m-	Inhalation R	Reference Dose (RfDi)
changed to:	Changes Made No Data. What are my options?		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change			3.4
4/13/2011	white mineral oil	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	2.E+00	mg/kg-day	Commente
value: changed to:	3.E+00	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
changed to.	J.L+00	ilig/kg-uay	(December 2010)
Date of	Chemical		Parameter
Change	via da la la sida	Air Mathada	O Considerate Otto dead Formula Value
4/13/2011	vinyl chloride	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	2.8E+00	μg/m3	
changed to:	5.7E+00	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	vinyl chloride	Air, Method	B, Carcinogen, Standard Formula Value
previous	Changes Made 2.8E-01	μg/m3	Comments
value: changed to:	5.7E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	vinyl chloride	Surface Wa	tter, Method C, Carcinogen, Standard Formula Value
previous	Changes Made 9.2E+01	μg/L	Comments
value: changed to:	1.9E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			

4/13/2011	vinyl chloride	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.7E+00	μg/L	Comments
value: changed to:	7.7E+00	μg/L	Changes to CLARC cleanup levels based on update
onangou to.	7.72100	μ9/ L	toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	vinyl chloride		d C, Carcinogen, Standard Formula Value, Direct pestion only), industrial land use
	Changes Made		Comments
previous	8.8E+01	mg/kg	
value: changed to:	1.8E+02	mg/kg	Changes to CLARC cleanup levels based on update
onangou to:	102102	9/ N9	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	vinyl chloride	Soil Method	d B, Carcinogen, Standard Formula Value, Direct
7/ 10/2011	viriyi dilidilde		gestion only), unrestricted land use
	Changes Made		Comments
previous value:	6.7E-01	mg/kg	
changed to:	1.4E+00	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	vinyl chloride	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
previous	Changes Made 2.9E-01	μg/L	Comments
value:			Changes to CLARC cleanup levels based on undete
changed to:	6.1E-01	µg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	vinyl chloride	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	2.9E-02	μg/L	- Commonie
value: changed to:	6.1E-02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	vinyl chloride	Oral Cancer	Potency Factor (CPFo)
changed to:	Changes Made 7.2E-01	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	vinyl chloride	Inhalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
	3.1E-02	kg-day/mg	
		1 1 /	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
value:	1.5E-02	kg-day/mg	(December 2010)
value: changed to:		kg-day/mg	
value: changed to: Date of Change	1.5E-02 Chemical vanadyl sulfate	Soil, Method	Parameter d C, Non-carcinogen, Standard Fomula Value, Direct
value: changed to: Date of Change	Chemical vanadyl sulfate	Soil, Method Contact (ing	Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
value: changed to: Date of Change 4/13/2011	Chemical vanadyl sulfate Changes Made	Soil, Method Contact (ing	Parameter d C, Non-carcinogen, Standard Fomula Value, Direct
previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical vanadyl sulfate	Soil, Method Contact (ing	Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use

Date of Change	Chemical		Parameter
4/13/2011	vanadyl sulfate	Soil, Method B, Non-carcinogen, Standard Formula Value, Dir Contact (ingestion only), unrestricted land use	
	Changes Made		Comments
previous	1.6E+03	mg/kg	Comments
value: changed to:	Researched-No Data	J. J	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	vanadyl sulfate	Oral Reference Dose (RfDo)	
4/13/2011	variacyi Sullate	Olai Kelelel	ice Dose (NIDO)
	Changes Made		Comments
previous	2.E-02	mg/kg-day	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter Parame
Change	P. C.		
4/13/2011	vanadium pentoxide	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	2.E-06	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	vanadium pentoxide	Inhalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	2.9E+01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	vanadium		C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
	Changes Made		Comments
previous	2.5E+04	mg/kg	Comments
value: changed to:	2.5E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	vanadium		B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), unrestricted land use
previous	Changes Made 5.6E+02	mg/kg	Comments
value: changed to:	5.6E+00	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change		C #01 19 -1 141 -1	
4/13/2011	vanadium	Value	er, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
•	2.5E+02	μg/L	
previous value: changed to:	2.5E+02 2.5E+00	μg/L μg/L	Changes to CLARC cleanup levels based on updated

Date of	Chemical		Parameter
Change 4/13/2011	vanadium	Cround Wat	ter, Method B, Non-carcinogen, Standard Formula
7/ 13/2011	variaululii	Value	
	Changes Made		Comments
previous	1.1E+02	μg/L	
value: changed to:	1.1E+00	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	vanadium	Oral Refere	nce Dose (RfDo)
orevious value:	7.E-03	mg/kg-day	Comments
changed to:	7.E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	uranium, soluble salts		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
		Somati (ing	· · · · · · · · · · · · · · · · · · ·
previous	Changes Made	mg/kg	Comments
value:	-	שיי ופיי	Changes to CLARC cleanup levels based on updat
changed to:	Researched-No Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	uranium, soluble salts		d B, Non-carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use
	Changes Made		Comments
orevious value:	2.4E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	uranium, soluble salts	Oral Refere	nce Dose (RfDo)
4/13/2011	uranium, soluble saits	Olai Releie	nce Dose (RIDO)
	Changes Made		Comments
orevious value:	3.E-03	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change			
4/13/2011	trinitrophenylmethylnitramine		d C, Non-carcinogen, Standard Fomula Value, Direct pestion only), industrial land use
	Changes Made		Comments
orevious value:	3.5E+04	mg/kg	
	1.4E+04	mg/kg	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
changed to:			
Date of	Chemical		Parameter
Date of Change		Sail Matha	
Date of Change	Chemical trinitrophenylmethylnitramine		
Date of Change 4/13/2011	trinitrophenylmethylnitramine Changes Made	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct
Date of Change 4/13/2011 previous value: changed to:	trinitrophenylmethylnitramine		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use

mg/kg

changed to:

3.2E+02

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical		Parameter
4/13/2011	trinitrophenylmethylnitramine	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	1.8E+02	μg/L	
changed to:	7.E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trinitrophenylmethylnitramine	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	8.E+01	μg/L	
changed to:	3.2E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trinitrophenylmethylnitramine	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	1.E-02	mg/kg-day	Comments
value: changed to:	4.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trinitrobenzene;1,3,5-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	9.4E+06	mg/kg	
changed to:	1.1E+05	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trinitrobenzene;1,3,5-		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	2.1E+05	mg/kg	
changed to:	2.4E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Gliellical		r ai ailletei
4/13/2011	trinitrobenzene;1,3,5-	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made	7-	Comments
previous value:	9.4E+04	μg/L	Changes to CLADO slavy at last 1
changed to:	1.1E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trinitrobenzene;1,3,5-	Giodila wa	ter, Method B, Non-carcinogen, Standard Formula
	trinitrobenzene;1,3,5-	Value	ter, Method B, Non-carcinogen, Standard Formula
	trinitrobenzene;1,3,5- Changes Made 4.3E+04	Value	Comments
4/13/2011	Changes Made		<u> </u>

Changes Vinitrobenzene:1,3.5- Oral Reference Dase (RIDo) Changes Made Commonts Changes Made Commonts Changed to: 3.E-02 mg/kg-day Updated CLARC toxicity values from IRIS or NCEA Changes Made Commonts Changes Io CLARC toxicity values from IRIS or NCEA Changes Io CLARC toxicity values Changes Io CLARC toxicity values Changes Made Commonts Changes Made Commonts Changes Io CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Commonts Changes Made Commonts Changes Made Commonts Changes Made Commonts Changes Io CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Commonts Changes Made Commonts Changes Io CLARC cleanup levels based on updated contact (Ingestion only), industrial land use Changes Made Commonts Changes Made Common	D ((T	
Changes Made 2.7E+00	Date of Change	Chemical		Parameter
Changes Made previous 2.7E+00 value: changed to: 3.F-02 Date of Chemical Parameter Changes Made previous Africance Interest Inte		trinitrobenzene;1,3,5-	Oral Refere	nce Dose (RfDo)
previous changed to: 3.E-92 mg/kg-day (Updated CLARC toxicity values from IRIS or NCEA (December 2010) Date of Changes Made Changes Made Changes to CLARC toxicity values from IRIS or NCEA (December 2010) Changes Made Changes Made Comments Changes Made Changes to CLARC toxicity values (December 2010) Date of Changes Made Changes to CLARC toxicity values (December 2010) Date of Changes Made Changes to CLARC toxicity values (December 2010) Date of Changes Made Changes to CLARC toxicity values (December 2010) Date of Changes Made Comments Perameter Changes Made Comments Previous Changes Made Comments Date of Chemical Parameter Changes Made Changes to CLARC clearup levels based on updated walues. Changes to CLARC clearup levels based on updated coxicity values (December 2010) Date of Changes Made Comments The Changes Made Comments Previous Changes Made Comments The Changes Made Comments Changes Made Changes to CLARC clearup levels based on updated coxicity values (December 2010) Date of Changes Made Changes to CLARC clearup levels based on updated coxicity values (December 2010) Date of Changes Made Changes Made Comments Previous Changes Made Changes Made Changes to CLARC clearup levels based on updated coxicity values (December 2010) Date of Changes Made Changes Made Changes to CLARC clearup levels based on updated changed to Safety of the Changes to CLARC clearup levels based on updated			I	, ,
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Changes Made previous Changes Made Comments Changes Made Comments Changes Made Changes Made Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Contact (ingestion only), industrial land use Changes Made Comments Changes Made Comme				
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previous value:	4/13/2011	trimetnylbenzene;1,3,5-	Air, Method	в, Non-Carcinogen, Standard Formula Value
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previous value:		Changes Made		Comments
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Date of Change 4/13/2011 trimethylbenzene;1,3,5- Soil, Method C, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Comments Changes Made Comments		December d No Dete		Changes to CLADC placerum levels becard an undetect
Date of Change Chemical Parameter 4/13/2011 trimethylbenzene;1,3,5- Soil, Method C, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Comments previous value: 1.8E+05 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Chemical Parameter Change Changes Made Comments previous Change Made Contact (ingestion only), unrestricted land use Changes Made Comments previous Value: 4.E+03 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Made Parameter Parameter Change Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Change Made Comments Comments previous Value: 8.8E+02 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter Parameter Change Made Comments Changes Made Comments	changed to:	Researched-No Data		
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Change 4/13/2011 trimethylbenzene;1,3,5- Soil, Method C, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Previous 1.8E+05 mg/kg value: changed to: 3.5E+04 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Made Previous 4.E+03 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Comments Parameter Change Made Comments Previous 4.E+03 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Changes Made Parameter Change Parameter Change Changes Made Comments Parameter Change Changes Made Comments Parameter Change Changes Made Comments Parameter Change Made Comments Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Comments Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter Changes Made Comments Parameter Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)			T	
A/13/2011 trimethylbenzene;1,3,5- Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use		Chemical		Parameter
Changes Made Comments		trimethylbenzene:1.3.5-	Soil Method	d C. Non-carcinogen, Standard Fomula Value, Direct
previous value: changed to: 3.5E+04 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Change 4/13/2011 Changes Made Changes Made Perameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Comments Tomesticted land use Changes Made Perameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Chemical Changes Made Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Timethylbenzene;1,3,5- Ground Water, Method C, Non-carcinogen, Standard Formula Value Changes Made Previous R.E+02 µg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Changes Made Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made	1/10/2011	umounyissn2sns,1,s,e		
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Date of Change Chemical Parameter		3.5E+04	mg/kg	Changes to CLARC cleanup levels based on updated
Change 4/13/2011 trimethylbenzene;1,3,5-				toxicity values (December 2010)
Change 4/13/2011 trimethylbenzene;1,3,5-				
Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made	Date of	Chemical		Parameter
Changes Made Changes Made Previous value: changed to: RE+02 Changes Made Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Previous value: changed to: RE+02 previous value: changed to: 1.8E+02 pg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Changes Made Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made Changes Made Parameter Change 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Changes Made Changes Made Changes Made Changes Made Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Changes Made Comments	Change			
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previous value:			Contact (ing	gestion only), unrestricted land use
previous value:		Changes Made		Comments
value: changed to: 8.E+02 mg/kg Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method C, Non-carcinogen, Standard Formula Value Changes Made previous value: changed to: 1.8E+02 pg/L Date of Chemical Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Changes Made 4/13/2011 Trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Change 4/13/2011 Trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments Previous value: changed to: 8.E+02 previous value: changed to: Changes Made Comments Previous Value Changes Made Comments Previous Value Changes Made Comments Previous Value Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	previous		mg/kg	
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previous value: 8.8E+02 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Chemical Change Parameter 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments previous value: 4.E+02 μg/L changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter	., . 5, 25 1 1			,earea e, mon earemegen, etandard i emilida
previous value: 8.8E+02 μg/L changed to: 1.8E+02 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Chemical Parameter 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments previous value: 4.E+02 μg/L changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter				
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Changed to: 1.8E+02 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Change Chemical Parameter 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments previous value: 4.E+02 μg/L changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter	•	8.8E+02	μg/L	
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Change 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments previous value: 4.E+02 μg/L changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter	· 			
Change 4/13/2011 trimethylbenzene;1,3,5- Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments previous value: 4.E+02 μg/L changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter				
Change Ground Water, Method B, Non-carcinogen, Standard Formula Value Changes Made Comments previous value: 4.E+02 changed to: 8.E+01 µg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical	Date of	Chemical		Parameter
Value Changes Made Comments previous value: 4.E+02 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter	Change			
Changes Made Comments previous value: 4.E+02 changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter	4/13/2011	trimethylbenzene;1,3,5-		ter, Method B, Non-carcinogen, Standard Formula
previous value: changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter			value	
previous value: changed to: 8.E+01 Date of Chemical μg/L μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		Changes Made		Comments
value: changed to: 8.E+01 μg/L Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter	previous		ua/l	Comments
Date of Chemical Parameter	value:		P9/ □	
Date of Chemical Parameter	changed to:	8.E+01	μg/L	Changes to CLARC cleanup levels based on updated
				toxicity values (December 2010)
Change		Chemical		Parameter
	Change			

4/13/2011	trimethylbenzene;1,3,5-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	5.E-02	mg/kg-day	Comments
value:	1 5 02		Lindated OLABO toxicit walkers from IDIO or NOTA
changed to:	1.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	trimethylbenzene;1,3,5-	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
orevious value:	1.7E-03	mg/kg-day	Lindated CLARC toxinity values from IRIS or NCEA
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change 4/13/2011	trimethylbenzene;1,2,4-	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	6.E+00	μg/m3	
changed to:	7.E+00	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Donomotor
Change	Chemical		Parameter
1/13/2011	trimethylbenzene;1,2,4-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious ⁄alue:	2.7E+00	μg/m3	
changed to:	3.2E+00	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	trimethylbenzene;1,2,4-		d C, Non-carcinogen, Standard Fomula Value, Direct jestion only), industrial land use
arovious.	Changes Made	ma/lea	Comments
previous value:	1.8E+05	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trimethylbenzene;1,2,4-		d B, Non-carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made	(/ 9	Comments
	4.E+03	mg/kg	
			Changes to CLARC cleanup levels based on update
value:	Researched-No Data		toxicity values (December 2010)
/alue:	Researched-No Data		
value: changed to:	Researched-No Data Chemical		Parameter
value: changed to: Date of Change		Ground Wat	Parameter ter, Method C, Non-carcinogen, Standard Formula
value: changed to: Date of Change	Chemical trimethylbenzene;1,2,4-		ter, Method C, Non-carcinogen, Standard Formula
Date of Change	Chemical trimethylbenzene;1,2,4- Changes Made	Value	
previous value: changed to: Date of Change 4/13/2011 previous value:	Chemical trimethylbenzene;1,2,4-		ter, Method C, Non-carcinogen, Standard Formula

Date of	Chemical		Parameter
Change			
4/13/2011	trimethylbenzene;1,2,4-	Ground War Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	4.E+02	μg/L	Comments
value:		1 0,	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical	Г	Parameter
Change	Chemicai	raianietei	
4/13/2011	trimethylbenzene;1,2,4-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	5.E-02	mg/kg-day	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Data of	Ohamiaal		Danamatan
Date of Change	Chemical		Parameter
4/13/2011	trimethylbenzene;1,2,4-	Inhalation R	Reference Dose (RfDi)
	Changes Made		Comments
previous	1.7E-03	mg/kg-day	
value: changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
			(December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloropropene;1,2,3-	Soil Method	d C, Non-carcinogen, Standard Fomula Value, Direct
17 10/2011	110110100100100,1,2,0		gestion only), industrial land use
	Changes Made		Comments
previous	1.8E+04	mg/kg	
value: changed to:	1.1E+04	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloropropene;1,2,3-		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	4.E+02	mg/kg	
value: changed to:	2.4E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
		1	tomony values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloropropene;1,2,3-	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made	_I value	Comments
previous value:	8.8E+01	μg/L	
changed to:	5.3E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Jiloiniyai		
4/13/2011	trichloropropene;1,2,3-	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	4.E+01	μg/L	
changed to:	2.4E+01	μg/L	Changes to CLARC cleanup levels based on update

μg/L

changed to:

2.4E+01

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter	
4/13/2011	trichloropropene;1,2,3-	Oral Refere	nce Dose (RfDo)
			_
previous	Changes Made 5.E-03	mg/kg-day	Comments
value:	J.L-03	ilig/kg-uay	
changed to:	3.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	trichloropropene;1,2,3-	Inhalation R	Reference Dose (RfDi)
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	8.6E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
	0.02 03	mg/kg day	(December 2010)
Date of	Chemical		Parameter
Date of Change	Gnemical		r ai ailletei
4/13/2011	trichloropropane;1,2,3-		d C, Carcinogen, Standard Formula Value, Direct
		Contact (Ing	gestion only), industrial land use
	Changes Made		Comments
previous value:	1.9E+01	mg/kg	
changed to:	4.4E+00	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Date of Change	Cnemical		Parameter
4/13/2011	trichloropropane;1,2,3-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
		Contact (ing	gestion only), industrial failu use
	Changes Made		Comments
previous value:	2.1E+04	mg/kg	
changed to:	1.4E+04	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			toxion, values (2000miles 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	trichloropropane;1,2,3-		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	1.4E-01	mg/kg	Comments
value:	2 25 02		Changes to CLABC alconus levels based on undet
changed to:	3.3E-02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloropropane;1,2,3-		d B, Non-carcinogen, Standard Formula Value, Direct
		Contact (Ing	gestion only), unrestricted land use
orevious	Changes Made 4.8E+02	mg/kg	Comments
/alue:			
changed to:	3.2E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloropropane;1,2,3-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
., . 5/2011		_ Sisting tva	
orevious	Changes Made	ua/l	Comments
value:	6.3E-02	μg/L	
changed to:	1.5E-02	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
			· , , , , ,
Date of	Chemical		Parameter
Change 4/13/2011	trichloropropane;1,2,3-	Crave -1144	ter, Method C, Non-carcinogen, Standard Formula

	Changes Made	.	Comments
previous	1.1E+02	μg/L	
value: changed to:	7.E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloropropane;1,2,3-	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	6.3E-03	μg/L	Comments
value: changed to:	1.5E-03	µg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloropropane;1,2,3-	Ground War	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	4.8E+01	μg/L	Comments
value: changed to:	3.2E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloropropane;1,2,3-	Oral Refere	nce Dose (RfDo)
	Changes Made	:	Comments
previous	6.E-03	mg/kg-day	
value: changed to:	4.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter Parameter
Change			
4/13/2011	trichloropropane;1,2,3-	Inhalation R	eference Dose (RfDi)
	Changes Made)	Comments
previous value:	Researched-No Data		
changed to:	8.6E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloropropane;1,2,3-	Oral Cancer	Potency Factor (CPFo)
previous	Changes Made 7.E+00	kg-day/mg	Comments
value: changed to:	3.E+01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
onangoa to.	3.2101	kg ddy/mg	(December 2010)
Data of	Chemical		Parameter
Change	trichlorophenol;2,4,6-	Oral Refere	nce Dose (RfDo)
Change		•	
Change 4/13/2011 previous	trichlorophenol;2,4,6- Changes Made Researched-No Data	•	Comments
Change 4/13/2011 previous value:	Changes Made	•	
Change 4/13/2011 previous value: changed to:	Changes Made Researched-No Data 1.E-03	•	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Change 4/13/2011 previous value: changed to: Date of	Changes Made Researched-No Data	•	Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made Researched-No Data 1.E-03 Chemical trichloroethylene	mg/kg-day Air, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 changed to:	Changes Made Researched-No Data 1.E-03 Chemical	mg/kg-day Air, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter

		1	_
Date of Change	Chemical		Parameter
4/13/2011	trichloroethylene	Air Method	C, Non-carcinogen, Standard Formula Value
1/ 10/2011	anomorodatylono	, an, Ivicuitou	5,on caromogon, clandard i officia value
	Changes Made		Comments
previous	3.5E+01	μg/m3	
value:	11111		
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	trichloroethylene	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on updated
onangoa to.	see additional information		toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloroethylene	Air Method	B, Non-Carcinogen, Standard Formula Value
.,	oourylono	,, wictiou	
	Changes Made		Comments
previous	1.6E+01	μg/m3	
value: changed to:	see additional information		Changes to CLARC cleanup levels based on updated
onany c u (0.	SEE auditional IIIIOIIIIdUOII		toxicity values (December 2010)
		<u> </u>	,
Date of	Chemical		Parameter
Change 4/13/2011	trichloroethylene	Surface M/a	ter, Method C, Carcinogen, Standard Formula Value
+/13/2011	anomoroeutylene	Junace Wa	ter, interrior o, Carolinogeri, Staridard Formula Value
	Changes Made		Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		i diametei
4/13/2011	trichloroethylene	Surface Wa	ter, Method C, Non-Carcinogen, Standard Formula
		Value	
		Value	
	Changes Made	Value	Comments
previous	Changes Made		Comments
previous value:	1.8E+02	µg/L	
•			Changes to CLARC cleanup levels based on updated
value:	1.8E+02		
value:	1.8E+02		Changes to CLARC cleanup levels based on updated
value:	1.8E+02		Changes to CLARC cleanup levels based on updated
value: changed to: Date of Change	1.8E+02 see additional information Chemical	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to:	1.8E+02 see additional information	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to: Date of Change	1.8E+02 see additional information Chemical trichloroethylene	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value
value: changed to: Date of Change 4/13/2011	1.8E+02 see additional information Chemical trichloroethylene Changes Made	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments
value: changed to: Date of Change	1.8E+02 see additional information Chemical trichloroethylene	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value
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value: changed to: Date of Change 4/13/2011 changed to: Date of Change	see additional information Chemical trichloroethylene Changes Made see additional information Chemical	μg/L Surface Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change 4/13/2011 changed to:	see additional information Chemical trichloroethylene Changes Made see additional information	μg/L Surface Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to: Date of Change 4/13/2011 changed to: Date of Change	1.8E+02 see additional information Chemical trichloroethylene Changes Made see additional information Chemical trichloroethylene	μg/L Surface Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula
Date of Change do: Date of Change do: Change do: Date of Change do:	see additional information Chemical trichloroethylene Changes Made see additional information Chemical trichloroethylene Changes Made	μg/L Surface Wa Surface Wa Value	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change 4/13/2011 changed to: Date of Change 4/13/2011	1.8E+02 see additional information Chemical trichloroethylene Changes Made see additional information Chemical trichloroethylene	μg/L Surface Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula
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value: changed to: Date of Change 4/13/2011 changed to: Date of Change 4/13/2011 previous value:	see additional information Chemical trichloroethylene Changes Made see additional information Chemical trichloroethylene Changes Made 7.1E+01	μg/L Surface Wa Surface Wa Value	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments
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value: changed to: Date of Change 4/13/2011 changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change diagram and the change to: Date of Change Date of Change Date of Change	see additional information Chemical trichloroethylene Changes Made see additional information Chemical trichloroethylene Changes Made 7.1E+01 see additional information Chemical trichloroethylene	μg/L Surface Wa Value μg/L Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of	Chemical		Parameter
Change			
4/13/2011	trichloroethylene		od C, Non-carcinogen, Standard Fomula Value, Direct ngestion only), industrial land use
	Changes Made		Comments
previous	1.1E+03	mg/kg	
value: changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	triablere ethylene	Coil Moth	ad D. Carainagan, Standard Formula Valua Direct
4/13/2011	trichloroethylene Soil, Method B, Carcinogen, Standard Formula Value, D Contact (ingestion only), unrestricted land use		
	Changes Made		Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloroethylene		od B, Non-carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
	Changes Made	Contact (II	Comments
previous value:	2.4E+01	mg/kg	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	trichloroethylene	Ground W	ater, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloroethylene	Ground W	/ater, Method C, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 5.3E+00	ug/l	Comments
value:	3.3E+00	µg/L	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloroethylene	Ground W	/ater, Method B, Carcinogen, Standard Formula Value
., 10/2011		JIOGITA VV	2, monte 2, caronogon, otanida i omida valde
changed to:	Changes Made see additional information		Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	trichloroethylene		ater, Method B, Non-carcinogen, Standard Formula
	Changes Made	Value	Comments
previous value:	2.4E+00	μg/L	Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	4 diable 1 - 1	0.15.1	(P/D :)
4/13/2011	trichloroethylene	Oral Refe	rence Dose (RfDo)
			Comments
	Changes Made		Comments

Date of	Chemical	Parameter			
Change					
4/13/2011	trichloroethylene	Inhalation R	eference Dose (RfDi)		
	Changes Made		Comments		
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
Date of	Chemical	Parameter			
Change 4/13/2011	trichloroethylene	Oral Cancer	Potency Factor (CPFo)		
.,	trichloroethylene Oral Cancer Potency Factor (CPFo)				
ahangad ta	Changes Made		Comments		
changed to:	see additional information	Updated CLARC toxicity values from IRIS or NCEA (December 2010)			
Date of	Chemical	Parameter			
Change 4/13/2011	trichloroethylene	Inhalation C	ancer Potency Factor (CPFi)		
4/10/2011	thornoroctrylene	minalation 0	and Follows Factor (OFFI)		
	Changes Made		Comments		
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
Date of	Chemical		Parameter		
Change 4/13/2011	trichloroethane;1,1,1-	Air Mathad	C, Non-carcinogen, Standard Formula Value		
TIJIZUII	41011101004114116,1,1,1-	Aii, Metilod	o, Non-caromogen, Standard Formula Value		
previous value:	Changes Made 1.1E+04	μg/m3	Comments		
changed to:	5.E+03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of	Chemical	Parameter			
Change		Air, Method B, Non-Carcinogen, Standard Formula Value			
4/13/2011	trichloroethane:1 1 1-	Air Method	B. Non-Carcinogen, Standard Formula Value		
4/13/2011	trichloroethane;1,1,1-	Air, Method	B, Non-Carcinogen, Standard Formula Value		
	Changes Made		B, Non-Carcinogen, Standard Formula Value Comments		
4/13/2011 previous value:		Air, Method μg/m3			
previous	Changes Made		Comments		
previous value: changed to:	Changes Made 4.8E+03	μg/m3	Comments Changes to CLARC cleanup levels based on updated		
previous value: changed to: Date of Change	Changes Made 4.8E+03 2.3E+03 Chemical	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter		
previous value: changed to:	Changes Made 4.8E+03 2.3E+03 Chemical trichloroethane;1,1,1-	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
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previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 4.8E+03 2.3E+03 Chemical trichloroethane;1,1,1- Changes Made 1.E+06 2.3E+06 Chemical trichloroethane;1,1,1- Changes Made	μg/m3 μg/m3 Surface Wavalue μg/L μg/L μg/L mg/kg-day	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments IRIS update Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter eference Dose (RfDi)		
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical trichloroethane;1,1,1- Changes Made 1.E+06 2.3E+06 Chemical trichloroethane;1,1,1- Changes Made 3.E+00 1.4E+00	μg/m3 μg/m3 Surface Wavalue μg/L μg/L μg/L mg/kg-day	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments IRIS update Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Chemical trichloroethane;1,1,1- Changes Made 1.E+06 2.3E+06 Chemical trichloroethane;1,1,1- Changes Made 3.E+00 1.4E+00 Chemical	μg/m3 μg/m3 Surface War Value μg/L μg/L μg/L mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments IRIS update Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
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previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Chemical trichloroethane;1,1,1- Changes Made 1.E+06 2.3E+06 Chemical trichloroethane;1,1,1- Changes Made 3.E+00 1.4E+00 Chemical	μg/m3 μg/m3 Surface War Value μg/L μg/L μg/L mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments IRIS update Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical trichloroethane;1,1,1- Changes Made 1.E+06 2.3E+06 Chemical trichloroethane;1,1,1- Changes Made 3.E+00 1.4E+00 Chemical trichlorobenzene;1,2,4-	μg/m3 μg/m3 Surface War Value μg/L μg/L μg/L mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments IRIS update Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Non-carcinogen, Standard Formula Value		
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 4.8E+03 2.3E+03 Chemical trichloroethane;1,1,1- Changes Made 1.E+06 2.3E+06 Chemical trichloroethane;1,1,1- Changes Made 3.E+00 1.4E+00 Chemical trichlorobenzene;1,2,4- Changes Made	μg/m3 μg/m3 Surface Way Value μg/L μg/L μg/L Inhalation R mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments IRIS update Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Non-carcinogen, Standard Formula Value		

Change	Chemical		Parameter	
4/13/2011	trichlorobenzene;1,2,4-	Air, Method	B, Non-Carcinogen, Standard Formula Value	
		,		
	Changes Made		Comments	
previous value:	9.1E+01	μg/m3		
changed to:	9.1E-01	μg/m3	Changes to CLARC cleanup levels based on update	
			toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	trichlorobenzene;1,2,4-	Inhalation R	halation Reference Dose (RfDi)	
	Changes Made		Comments	
previous	5.7E-02	mg/kg-day	Comments	
value: changed to:	5.7E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA	
	31,2 01	mg/kg day	(December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	trichlorobenzene;1,2,4-	Oral Cancer	Potency Factor (CPFo)	
	21		0	
previous	Changes Made Researched-No Data		Comments	
value:		Lee desidese	Lindated CLARC toxicity values from IRIC or NCCA	
changed to:	2.9E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	tributyltin oxide		C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use	
	Ol among Marile	Toomaot (mg		
previous	Changes Made	mg/kg	Comments	
value:	-	-	Changes to CLADC alconomic levels based on undate	
changed to:	1.1E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
	Chemical		Parameter	
Change	Chemical tributyltin oxide		d B, Non-carcinogen, Standard Formula Value, Direct	
Change				
Change 4/13/2011	tributyltin oxide Changes Made	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct	
Change 4/13/2011 previous	tributyltin oxide		B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments	
Change 4/13/2011 previous value:	tributyltin oxide Changes Made	Contact (ing	B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments	
Change 4/13/2011 previous value:	tributyltin oxide Changes Made 2.4E+00	Contact (ing	B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on update	
Change 4/13/2011 previous value: changed to: Date of	tributyltin oxide Changes Made 2.4E+00	Contact (ing	B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on update	
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.4E+00 2.4E+01	Contact (ing	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide	Contact (ing	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo)	
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.4E+00 2.4E+01 Chemical	Contact (ing	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05	mg/kg mg/kg Oral Refere	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Comments Comments	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made	mg/kg mg/kg Oral Refere	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo)	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04	mg/kg mg/kg Oral Refere	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Comments Comments Comments Comments	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05	mg/kg mg/kg Oral Refere	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Comments Updated CLARC toxicity values from IRIS or NCEA	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change Change	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04	mg/kg mg/kg Oral Refere mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Comments Comments Comments Comments	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change Change	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04 Chemical	mg/kg mg/kg Oral Refere mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Comments Comments Parameter Comments Comments Parameter Parameter Parameter Parameter Parameter	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04 Chemical toluenediamine;2,6-	mg/kg mg/kg Oral Refere mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Non-carcinogen, Standard Formula Value	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04 Chemical toluenediamine;2,6- Changes Made	mg/kg mg/kg Oral Refere mg/kg-day mg/kg-day	Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values from IRIS or NCEA (December 2010)	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04 Chemical toluenediamine;2,6- Changes Made 7.E+02	mg/kg mg/kg Oral Refere mg/kg-day mg/kg-day	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Comments Comments Parameter Comments	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.4E+00 2.4E+01 Chemical tributyltin oxide Changes Made 3.E-05 3.E-04 Chemical toluenediamine;2,6- Changes Made 7.E+02	mg/kg mg/kg Oral Refere mg/kg-day mg/kg-day	Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update december 2010)	

	toluenediamine;2,6-	,	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.2E+02	μg/m3	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	toluenediamine;2,6-	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use	
	Changes Made		Comments
previous value:	7.E+05	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Data of	Chemical		Parameter
Date of Change	Chemical		Parameter
4/13/2011	toluenediamine;2,6-	Soil, Method B, Non-carcinogen, Standard Formula Value, Direc Contact (ingestion only), unrestricted land use	
	Changes Made		Comments
previous value:	1.6E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical	Parameter	
Change 4/13/2011	toluppediaminas 2.0	Ground M.	tor Mothod C. Non parainagen Chandard Fameril
4/13/2011	toluenediamine;2,6-	Value	ter, Method C, Non-carcinogen, Standard Formula
previous	Changes Made 7.E+03	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	toluenediamine;2,6-	Ground Water, Method B, Non-carcinogen, Standard For Value	
	Changes Made		Comments
previous	3.2E+03	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change		Faranietei	
4/13/2011	toluenediamine;2,6-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous value:	2.E-01	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change 4/13/2011	toluenediamine;2,6-	Inhalation R	Reference Dose (RfDi)
	Changes Made		Comments
changed to:	Changes Made No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Det			
Date of Change	Chemical	Parameter	
	toluenediamine;2,5-	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct	

Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct

4/13/2011

toluenediamine;2,5-

		Contact (ing	estion only), industrial land use
	Changes Made		Comments
previous value:	2.1E+06	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
		I	,,
Date of	Chemical		Parameter
Change		0 11 14 41	
4/13/2011	toluenediamine;2,5-		d B, Non-carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use
	Changes Made		Comments
orevious ⁄alue:	4.8E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	toluone diamina 20 5	Crown 1111	tor Mothod C. Non construction Of the Lord T.
4/13/2011	toluenediamine;2,5-	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	2.1E+04	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	toluenediamine;2,5-	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious ⁄alue:	9.6E+03	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	toluenediamine;2,5-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious /alue:	6.E-01	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	Ashronodiansia s C A	Coll Basil	d C. Corolina con Ctandard Francis In V. I
4/13/2011	toluenediamine;2,4-		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use
	Changes Made		Comments
orevious	4.1E+01	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	toluenediamine;2,4-		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
orevious value:	3.1E-01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update

Date of Change	Chemical	Parameter
4/13/2011	toluenediamine;2,4-	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	2.7E-01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	toluenediamine;2,4-	Ground Wat	rer, Method B, Carcinogen, Standard Formula Value
			<u> </u>
previous	Changes Made 2.7E-02	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
	rescarcined the Butta		toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	toluenediamine;2,4-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous value:	3.2E+00	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change		A. 34	
4/13/2011	toluene diisocyanate mixture;2,4-/2,6-	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	7.E-02	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
		I	toxion, values (2000mber 2010)
Date of	Chemical		Parameter
Change 4/13/2011	toluene diisocyanate	Air, Method B, Non-Carcinogen, Standard Formula Value	
	mixture;2,4-/2,6-		
	Changes Made		Comments
previous value:	3.2E-02	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
4/13/2011	toluene diisocyanate mixture;2,4-/2,6-	Inhalation R	eference Dose (RfDi)
			Comments
	Changes Made		COMMENIA
previous	Changes Made 2.E-05	mg/kg-day	
value:	2.E-05	mg/kg-day	
•	_	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from
value: changed to:	2.E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_
value: changed to: Date of Change	2.E-05 No Data. What are my options? Chemical		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM Parameter
value: changed to:	2.E-05 No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	toluene	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
changed to:	2.3E+03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Data of	Chamical		Danamatan
Date of Change	Chemical		Parameter
4/13/2011	toluene	Surface Water, Method C, Non-Carcinogen, Standard Formula Value	
	Changes Made		Comments
changed to:	4.9E+04	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0 ()	
4/13/2011	toluene	Value	ter, Method B, Non-Carcinogen, Standard Formula
	Changes Made		Comments
changed to:	1.9E+04	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	toluene	Inhalation R	Reference Dose (RfDi)
5, = 0 1 1		aidioii I	
changed to:	Changes Made 1.4E+00	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	thallium, soluble salts	Surface Water, Method C, Non-Carcinogen, Standard Formul Value	
	Changes Made	Value	Comments
orevious	Changes Made 3.9E+00	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	thallium, soluble salts	Surface Wa	ter, Method B, Non-Carcinogen, Standard Formula
		Value	
	Changes Made		Comments
orevious value:	1.6E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	thallium, soluble salts	Coil Math	d C, Non-carcinogen, Standard Fomula Value, Direct
4/13/2011	thallium, soluble saits		gestion only), industrial land use
	Changes Made		Comments
previous value:	2.5E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	thallium, soluble salts		d B, Non-carcinogen, Standard Formula Value, Direct
		Contact (inc	gestion only), unrestricted land use
previous	Changes Made 5.6E+00	mg/kg	Comments
value:		g/ \\g	
	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
changed to:	Chemical		toxicity values (December 2010) Parameter

thallium, soluble salts	Ground Wat Value	er, Method C, Non-carcinogen, Standard Formula
Changes Made		Comments
2.5E+00	μg/L	
Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical		Parameter
thallium, soluble salts	Ground Wat Value	er, Method B, Non-carcinogen, Standard Formula
Oh an maa Mada		O a manufactura de la constanta de la constant
	ua/L	Comments
Researched-No Data	F-3/ -	Changes to CLARC cleanup levels based on updated
		toxicity values (December 2010)
Chemical		Parameter
thallium, soluble salts	Oral Refere	nce Dose (RfDo)
Changes Made		Comments
7.E-05	mg/kg-day	
No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:54PM
Chemical		Parameter
thallium(I) aulfata	Soil Mothod	d C, Non-carcinogen, Standard Fomula Value, Direct
triallium(i) surfate	Contact (ingestion only), industrial land use	
Changes Made		Comments
2.8E+02	mg/kg	
Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical		Parameter
thallium(I) sulfate		B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
Changes Made		Comments
6.4E+00	mg/kg	
Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical		Parameter
thallium(I) sulfate	Ground Wat	er, Method C, Non-carcinogen, Standard Formula
Changes Made		Comments
2.8E+00	μg/L	Comments
Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
	1	,
Chemical		Parameter
thallium(I) sulfate	Ground Wat Value	er, Method B, Non-carcinogen, Standard Formula
	v alu t	
- -		
Changes Made 1.3E+00	μg/L	Comments
	Changes Made 2.5E+00 Researched-No Data Chemical thallium, soluble salts Changes Made 1.1E+00 Researched-No Data Chemical thallium, soluble salts Changes Made 7.E-05 No Data. What are my options? Changes Made 2.8E+02 Researched-No Data Chemical thallium(I) sulfate Changes Made 2.8E+02 Researched-No Data Chemical thallium(I) sulfate Changes Made 6.4E+00 Researched-No Data Chemical thallium(I) sulfate	Changes Made 2.5E+00

Change	Chemical		Parameter
4/13/2011	thallium(I) sulfate	Oral Refere	nce Dose (RfDo)
	Changes Made		Commonto
previous value:	Changes Made 8.E-05	mg/kg-day	Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
		I	
Date of Change	Chemical		Parameter
4/13/2011	thallium nitrate		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	3.2E+02	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	thallium nitrate		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Ohanne - Wall	,(/8	
previous	Changes Made 7.2E+00	mg/kg	Comments
value:		Ji 3	Changes to CLARC cleanup levels based on update
changed to:	Researched-No Data		toxicity values (December 2010)
Date of	Chemical		Doromotor
Change	Cnemical		Parameter
4/13/2011	thallium nitrate	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	Oh an maa Mada		0
previous	Changes Made 3.2E+00	ug/l	Comments
	J.2L 100	µg/L	
	Researched-No Data	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
changed to:	Researched-No Data	μg/L	toxicity values (December 2010)
Changed to: Date of Change	Researched-No Data Chemical		toxicity values (December 2010) Parameter
changed to: Date of Change	Researched-No Data		toxicity values (December 2010)
Changed to: Date of Change	Researched-No Data Chemical	Ground Wa	toxicity values (December 2010) Parameter
Date of Change 4/13/2011	Chemical thallium nitrate	Ground Wa	Parameter ter, Method B, Non-carcinogen, Standard Formula
Date of Change 4/13/2011 previous value:	Chemical thallium nitrate Changes Made	Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments
Date of Change 4/13/2011 previous value:	Chemical thallium nitrate Changes Made 1.4E+00	Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update
Date of Change 4/13/2011 previous value: changed to:	Chemical thallium nitrate Changes Made 1.4E+00	Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical	Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Date of Change 4/13/2011 Drevious value: changed to: Date of Change	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data	Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical	Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical thallium nitrate Changes Made	Ground War Value μg/L	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical thallium nitrate Changes Made 9.E-05	Ground War Value μg/L	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
Date of Change 4/13/2011 Date of Change delta	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical thallium nitrate Changes Made 9.E-05 No Data. What are my options?	Ground War Value μg/L Oral Refere mg/kg-day	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 6/13/2011	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical thallium nitrate Changes Made 9.E-05 No Data. What are my options?	Ground Wavalue µg/L Oral Refere mg/kg-day Soil, Method	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 6/13/2011	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical thallium nitrate Changes Made 9.E-05 No Data. What are my options?	Ground Wavalue µg/L Oral Refere mg/kg-day Soil, Method	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct
Date of Change 4/13/2011 previous value: change 4/13/2011 Date of Change 4/13/2011 previous value: change to:	Chemical thallium nitrate Changes Made 1.4E+00 Researched-No Data Chemical thallium nitrate Changes Made 9.E-05 No Data. What are my options? Chemical thallium chloride	Ground Wavalue µg/L Oral Refere mg/kg-day Soil, Method	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C C, Non-carcinogen, Standard Fomula Value, Direct jestion only), industrial land use

	Chemical	Parameter	
Change	thallium ablazida	Coil Method D. Non consiners of Ctandard Formula Value D	
4/13/2011	thallium chloride		d B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	6.4E+00	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	thallium chloride	Ground Water, Method C, Non-carcinogen, Standard For	
		Value	
provious	Changes Made	/1	Comments
previous value:	2.8E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	thallium chloride	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	1.3E+00	μg/L	Communica
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		raiametei
4/13/2011	thallium chloride	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous value:	8.E-05	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
		Parameter	
	Chemical		
Change	Chemical thallium carbonate		d C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
Change 4/13/2011	thallium carbonate Changes Made	Contact (ing	
Change 4/13/2011 previous	thallium carbonate		estion only), industrial land use
Change 4/13/2011 previous value:	thallium carbonate Changes Made	Contact (ing	Comments
Change 4/13/2011 previous value: changed to:	thallium carbonate Changes Made 2.8E+02	Contact (ing	Comments Changes to CLARC cleanup levels based on updat
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+02 Researched-No Data Chemical	mg/kg	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+02 Researched-No Data	mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+02 Researched-No Data Chemical	mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate	mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	thallium carbonate Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate Changes Made	mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate Changes Made 6.4E+00	mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updat
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate Changes Made 6.4E+00	mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updat
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate Changes Made 6.4E+00 Researched-No Data	mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B.B., Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate Changes Made 6.4E+00 Researched-No Data Chemical thallium carbonate	mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B.B., Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter ter, Method C, Non-carcinogen, Standard Formula
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.8E+02 Researched-No Data Chemical thallium carbonate Changes Made 6.4E+00 Researched-No Data Chemical	mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B.B., Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter

Date of	Chemical		Parameter	
Change 4/13/2011	thallium carbonate	Ground Water, Method B, Non-carcinogen, Standard Forn Value		
	Changes Made	e Comments		
previous	1.3E+00	μg/L	Comments	
value:		P3/ =		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011		0 15 (
4/13/2011	thallium carbonate	Oral Referei	nce Dose (RfDo)	
	Changes Made		Comments	
previous	8.E-05	mg/kg-day		
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_oupdated from 0 to 3 on May 11 2011 3:54PM	
Date of	Chemical		Parameter	
Change				
4/13/2011	thallium acetate		d C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use	
	Changes Made		Comments	
previous	3.2E+02	mg/kg	Comments	
value:		Ji - 3		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change	Gileniidai		r didiliotoi	
4/13/2011	thallium acetate	Soil, Method B, Non-carcinogen, Standard Formula Value, Dir Contact (ingestion only), unrestricted land use		
	Changes Made		Comments	
previous value:	7.2E+00	mg/kg		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	thallium acetate	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula	
	Changes Made		Comments	
previous	3.2E+00	μg/L		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
		'		
Date of	Chemical		Parameter	
Change 4/13/2011	thallium acetate	Ground Wat	ter, Method B, Non-carcinogen, Standard Formula	
		Value		
previous	Changes Made	ug/I	Comments	
previous value:	1,7L⊤UU	μg/L		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change	Onemical		i didiliotoi	
4/13/2011	thallium acetate	Oral Refere	nce Dose (RfDo)	
	01			
previous	Changes Made 9.E-05	mg/kg-day	Comments	
value:	J.L-UJ	mg/kg-udy		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from	

MTCA information hierarchy (April 2011) and note_cd
updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	thallic oxide	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	2.5E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	thallic oxide	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	5.6E+00	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	thallic oxide	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	2.5E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	thallic oxide	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.1E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	thallic oxide	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	7.E-05	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	tetrachloroethylene	Air, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	4.2E+00	μg/m3	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	tetrachloroethylene	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.5E+01	μg/m3	

changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	tetrachloroethylene	Air, Method	d B, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
previous value:	4.2E-01	μg/m3	Comments	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	tetrachloroethylene	Air, Method B, Non-Carcinogen, Standard Formula Value		
	Changes Made		Comments	
previous value:	1.6E+01	µg/m3		
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	tetrachloroethylene	Surface W	ater, Method C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	tetrachloroethylene	Surface W	ater, Method B, Carcinogen, Standard Formula Value	
changed to:	Changes Made see additional information	Comments Changes to CLARC cleanup levels based on toxicity values (December 2010)		
		_		
Date of Change	Chemical		Parameter	
4/13/2011	tetrachloroethylene		od C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use	
	Changes Made		Comments	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	tetrachloroethylene		od B, Carcinogen, Standard Formula Value, Direct agestion only), unrestricted land use	
	Changes Made		Comments	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	tetrachloroethylene	Ground W	ater, Method C, Carcinogen, Standard Formula Value	
.,	1011 do 1110 lotto	JIJUITU VV	a.c.,ca.ca o, caromogon, ciandara i ominia value	
	Changes Made		Comments	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change	Antino ala la constituit de la constitui	0	oten Method D. Consingues Circular II	
4/13/2011	tetrachloroethylene Changes Made	Ground Wa	ater, Method B, Carcinogen, Standard Formula Value Comments	
changed to:	see additional information		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	

Date of Change	Chemical		Parameter	
4/13/2011	tetrachloroethylene	Oral Cancer	Potency Factor (CPFo)	
	Changes Made		Comments	
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	tetrachloroethylene	Inhalation C	ancer Potency Factor (CPFi)	
	Changes Made		Comments	
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	tetrachloroethane;1,1,2,2-	Air Method	C, Carcinogen, Standard Formula Value	
1 /13/2011	tetracinoroethane, 1, 1,2,2	All, Method	o, carcinogen, standard i official value	
	Changes Made		Comments	
previous	4.3E-01	μg/m3		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	tetrachloroethane;1,1,2,2-	Air, Method	B, Carcinogen, Standard Formula Value	
orevious	Changes Made 4.3E-02	μg/m3	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change 4/13/2011	Chemical tetrachloroethane;1,1,2,2-	Oral Refere	Parameter nce Dose (RfDo)	
	Changes Made		Comments	
orevious	Researched-No Data			
value: changed to:	2.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
			(2 333	
Date of	Chamical			
	Chemical		Parameter	
Change	Chemical tetrachloroethane;1,1,2,2-	Inhalation C		
Change 4/13/2011 previous		Inhalation C	Parameter	
Change 4/13/2011 Drevious value:	tetrachloroethane;1,1,2,2- Changes Made		Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from	
Change 4/13/2011 Drevious Value: Changed to: Date of	tetrachloroethane;1,1,2,2- Changes Made 2.E-01		Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c	
Change 4/13/2011 Drevious Value: Changed to: Date of Change	Changes Made 2.E-01 No Data. What are my options?	kg-day/mg	Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM	
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.E-01 No Data. What are my options? Chemical tetrabromodiphenyl ether 2,2',4,4'	kg-day/mg	Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter	
Change 4/13/2011 Drevious value: changed to: Date of Change 4/13/2011	Changes Made 2.E-01 No Data. What are my options? Chemical tetrabromodiphenyl ether	kg-day/mg	Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C, Non-carcinogen, Standard Formula Value	
Change 4/13/2011 Drevious value: changed to: Date of Change 4/13/2011 Drevious value:	Changes Made 2.E-01 No Data. What are my options? Chemical tetrabromodiphenyl ether 2,2',4,4' Changes Made	kg-day/mg Air, Method	Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C, Non-carcinogen, Standard Formula Value Comments	
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change to: Date of Change to: Date of Change to:	Changes Made 2.E-01 No Data. What are my options? Chemical tetrabromodiphenyl ether 2,2',4,4' Changes Made 3.5E-01	kg-day/mg Air, Method	Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updates	

4/13/2011	tetrabromodiphenyl ether 2,2',4,4'	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.6E-01	μg/m3	Comments
value:		F-5/	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	tcdd;2,3,7,8-		C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
	Changes Made		Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
	s B & C, Carcinogen, Standard Formula Va 7,8-) based on Gastrointestinal absorption		ct (ingestion only) soil cleanup levels for 2,3,7,8 - tetrachlorodibenz 0.6, unitless.
Date of Change	Chemical		Parameter
4/13/2011	tcdd;2,3,7,8-	Soil Method	B, Carcinogen, Standard Formula Value, Direct
4,10,2011	1000,2,0,7,0		estion only), unrestricted land use
	Changes Made		Comments
changed to:	see additional information		Changes to CLARC cleanup levels based on update
N .			toxicity values (December 2010)
	s B & C, Carcinogen, Standard Formula Va 7,8-) based on Gastrointestinal absorption		act (ingestion only) soil cleanup levels for 2,3,7,8 - tetrachlorodibenz 0.6, unitless.
Date of Change	Chemical		Parameter
4/13/2011	tcdd;2,3,7,8-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous value:	1.5E+05	kg-day/mg	
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	tcdd;2,3,7,8-	Inhalation C	ancer Potency Factor (CPFi)
previous	Changes Made 1.5E+05	kg-day/mg	Comments
value: changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA
	see additional information		
	see additional information		(December 2010)
Date of	Chemical		
Change	Chemical	Air Method	(December 2010) Parameter
Change		Air, Method	(December 2010)
Change 4/13/2011	Chemical styrene Changes Made		(December 2010) Parameter
Change 4/13/2011 previous value:	Chemical styrene Changes Made 4.4E+01	Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments
Change 4/13/2011 previous	Chemical styrene Changes Made		Parameter C, Carcinogen, Standard Formula Value Comments
Change 4/13/2011 previous value: changed to:	Chemical styrene Changes Made 4.4E+01 Researched-No Data		Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update
Change 4/13/2011 previous value:	Chemical styrene Changes Made 4.4E+01		Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of	Chemical styrene Changes Made 4.4E+01 Researched-No Data	μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made	μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene	μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made	μg/m3 Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made 4.4E+00 Researched-No Data	μg/m3 Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical styrene Changes Made 4.4E+01 Researched-No Data Chemical styrene Changes Made 4.4E+00	μg/m3 Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update and toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made 4.4E+00 Researched-No Data	μg/m3 Air, Method μg/m3 Soil, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made 4.4E+00 Researched-No Data Chemical	μg/m3 Air, Method μg/m3 Soil, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Parameter
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made 4.4E+00 Researched-No Data Chemical Styrene Changes Made	μg/m3 Air, Method μg/m3 Soil, Method Contact (ing	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change Change Date of Change Change Date of Change	Chemical Styrene Changes Made 4.4E+01 Researched-No Data Chemical Styrene Changes Made 4.4E+00 Researched-No Data Chemical Styrene	μg/m3 Air, Method μg/m3 Soil, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use

Date of	Chemical		Parameter
Change	Glieniical		न्या वागि रा स
4/13/2011	styrene		B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Ohanna Mad		Comments
previous	Changes Made 3.3E+01	ma/ka	Comments
value:	3.3E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	styrene	Ground Wat	er, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.5E+01	μg/L	
value:		1 3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on upda toxicity values (December 2010)
Date of	Chemical		Parameter
Change	at ways	0	Mathed D. Continue Co. 1 17
4/13/2011	styrene	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.5E+00	μg/L	
value:	D	1 3	Character CLADO alactura lavada hacardan un de
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on upda toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	styrene	Oral Cancer	Potency Factor (CPFo)
	1 ,		, , ,
	Changes Made	ı	Comments
previous value:	3.E-02	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidan is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
Date of Change	Chemical		Parameter
4/13/2011	styrene	Inhalation C	ancer Potency Factor (CPFi)
	1 ,	l	
	Changes Made		Comments
previous value:	2.E-03	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidan is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change			
	selenourea		d C, Non-carcinogen, Standard Fomula Value, Direc estion only), industrial land use
			estion only), industrial land use
4/13/2011	Selenourea Changes Made 1.8E+04	Contact (ing	
previous value:	Changes Made 1.8E+04		estion only), industrial land use Comments
previous value:	Changes Made	Contact (ing	estion only), industrial land use Comments
previous value: changed to:	Changes Made 1.8E+04 Researched-No Data	Contact (ing	Comments Changes to CLARC cleanup levels based on upda toxicity values (December 2010)
previous value: changed to:	Changes Made 1.8E+04	Contact (ing	Comments Changes to CLARC cleanup levels based on upda
previous value: changed to: Date of Change	Changes Made 1.8E+04 Researched-No Data	mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updatoxicity values (December 2010) Parameter
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 1.8E+04 Researched-No Data Chemical	mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updatoxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Directions of the composition of the com
previous value: changed to: Date of Change 4/13/2011	Changes Made 1.8E+04 Researched-No Data Chemical selenourea Changes Made	mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Directestion only), unrestricted land use

changed to:

Researched-No Data

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical		Parameter	
4/13/2011	selenourea	Oral Refere	nce Dose (RfDo)	
orovious	Changes Made	ma/l/a =	Comments	
orevious ⁄alue:	5.E-03	mg/kg-day		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM	
		I	apacica noin o to o on may 11 2011 old in m	
Date of Change	Chemical		Parameter	
4/13/2011	quinoline		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use	
	Changes Made		Comments	
orevious	1.1E+01	mg/kg	25	
value:	4.45.04	-	Changes to CLABO share at the state of the s	
changed to:	4.4E+01	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	quinoline		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use	
	Changes Made		Comments	
orevious	8.3E-02	mg/kg		
value:			Changes to CLABO state and a state of the st	
changed to:	3.3E-01	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change		0 100		
4/13/2011	quinoline	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
orevious	3.6E-02	μg/L	Commente	
value:				
changed to:	1.5E-01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	quinoline	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
orevious	3.6E-03	μg/L		
value:	1 55 02		Changes to CLAPC alapsius levels hazard as well-to	
changed to:	1.5E-02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
			_	
Date of Change	Chemical		Parameter	
4/13/2011	quinoline	Oral Cancer	Potency Factor (CPFo)	
	1	2.0. 0011001	, (0 0)	
	Changes Made		Comments	
orevious	1.2E+01	kg-day/mg		
value: changed to:	3.E+00	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	propylene glycol	Air Method	C, Non-carcinogen, Standard Formula Value	
T/ 10/2011		Au, Melilou		
arovio::a	Changes Made		Comments	
orevious value:	7.E+03	μg/m3		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	

Chemical		Parameter
propylene glycol	Air, Method	B, Non-Carcinogen, Standard Formula Value
Changes Made		Comments
3.2E+03	μg/m3	Comments
Danamaka d Na Data	1 0,	Changes to CLADO classical based on undeted
Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical		Parameter
propulono alvool	Inhalation D	oforonos Doss (DfDi)
propylene glycol	IIIIIaiaiioii K	elefence Dose (RIDI)
Changes Made		Comments
2.E+00	mg/kg-day	
No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Obamical		Denometer
Chemical		Parameter
polychlorinated biphenyls	Air, Method	C, Carcinogen, Standard Formula Value
Changes Made		Comments
4.4E-02	μg/m3	
4.4E-02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		December 1 and 1 a
Cnemical		Parameter
polychlorinated biphenyls	Air, Method	B, Carcinogen, Standard Formula Value
Changes Made		Comments
4.4E-03	μg/m3	
4.4E-03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical		Parameter
polychlorinated biphenyls	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
Changes Made		Comments
2.6E-03	μg/L	
2.6E-03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chemical		Parameter
polychlorinated biphenyls	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
Changes Made		Comments
1.1E-04	μg/L	
1.E-04	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Chomical		Parameter
Gleinical		rarameter
polybrominated biphenyls		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use
Changes Made		Comments
Julianyes Made		Oominichts
1.5E+01	mg/kg	
	Chemical Propylene glycol Changes Made 2.E+00 No Data. What are my options? Changes Made 4.4E-02 4.4E-02 Chemical Polychlorinated biphenyls Changes Made 4.4E-03 Changes Made 4.4E-03 Changes Made 4.5-03 Changes Made 4.6-03 Chemical Polychlorinated biphenyls Changes Made 1.1E-04 Chemical Polychlorinated biphenyls	Changes Made 3.2E+03 μg/m3 Researched-No Data Propylene glycol Inhalation R Changes Made 2.E+00 mg/kg-day No Data. What are my options? Changes Made 4.4E-02 μg/m3 4.4E-02 μg/m3 Air, Method Changes Made 4.4E-03 μg/m3 4.4E-03 μg/L Chemical polychlorinated biphenyls Surface Water Surface W

A/13/2011 polybrominated biphenyls Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments Previous value: Changed to: Researched-No Data Changes to CLARC cleanup levels based on update toxicity values (December 2010) Change Parameter Change 4/13/2011 polybrominated biphenyls Oral Cancer Potency Factor (CPFo) Changes Made Comments Previous value: 8.9E+00 kg-day/mg	Date of Change	Chemical		Parameter
previous 1.1E-01 mg/kg Changes to CLARC cleanup levels based on update toxicity values (December 2010) Data of Changes Made Previous 8.9E+00 Values (December 2010) Changes Made Previous No Data. What are my options? Date of Changes Made Changes Made Changes Made	4/13/2011	polybrominated biphenyls		
traininged to: Researched-No Data Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Chemical Parameter Changes Made Comments All All All All All All All All All Al	<u> </u>	_		Comments
Changes Made previous Changes Made L.ZE+02 Value: Changes Made L.ZE+02 Value: Changes Made Changes Made L.ZE+01 Values Changes Made L.ZE+02 Value: Changes Made L.ZE+01 Values Changes Made L.ZE+01 Values Changes Made L.ZE+02 Values Changes Made Late-05 Changes Made Late-06 Changes Made Late-07 Changes Made Late-0	•	1.1E-01	mg/kg	
Changes Made previous (Africance Potency Factor (GPFo) (Africance Potency Factor (GPFo) (Africance) (A	changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
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Changes Made changed to: Changes Made changed to: No Data. What are my options? Chemical previous changed to: Changes Made Comments Parameter Changes Made Changes Made Comments Surface Water, Method C, Non-Carcinogen, Standard Formula Value Changes Made Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes Made Comment	Change			
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inchanged to: No Data, What are my options? Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments, de extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note cupdated from 0 to 3 on May 11 2011 3:54PM Date of Change Changes Made Changes Made Changes Made Changes to CLARC cleanup levels based on update toxicity values are unavailable from the comments Date of Changes Made Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Previous 5.5E+01 Qhanges Made Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Previous 4/13/2011 Date of Chemical Changes Made Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Previous 3.4E-02 Alf-02 Changes Made Comments Parameter Changes Made Comments Parameter Changed to: Changes Made Comments Date of Changes Made Changes Made Comments Changes Made Comments Date of Changes Made Comments Date of Chemical Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Chemical Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Changes Made Comm		Changes Made		Comments
thenged to: No Data. What are my options? Changes Chemical Parameter	•	8.9E+00	kg-day/mg	
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Changes Made previous value: Achanged to: Chemical Changes Made Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Change Afrizola Date of Changes Made Previous Value: Changes Made Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Changes Made Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Changes Made Previous Value: Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes Made Comments Previous Value: Africa Made Comments Changes Made Comments Changes Made Comments Previous Value: Africa Made Comments of extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note coupdated from 0 to 3 on May 11 2011 3:54PM Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Change Changes Made Comments Parameter Changes Made Comments		nhthalic anhydride	Air Mothad	C Non-carcinogen Standard Formula Valua
previous value: changed to: Date of Changes previous previous changed to: Changes Made previous value: Changes Made previous value: Changes Made Change Changes Changes That is a searched-No Data Changes Made previous value: Changes Made Changes Changes Changes Made previous value: Changes Made Changes Changes Changes Changes Made previous Value: Changes Made Comments Changes Made Comments Parameter Changes Changes Changes Made Comments Parameter Changes Changes Made Comments Parameter Changes Changes Made Comments Parameter Changes Changes Made Comments Previous Value: Changes Made Comments Previous Value: Changes Made Comments Comments Parameter Changed to: No Data. What are my options? Changes Made Comments Parameter Changed to: No Data. What are my options? Changes Made Comments Parameter Change Changes Changes Made Comments Parameter Changes Changes Made Comments Parameter Changes Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Changes Made Comments Parameter Changes Made Comments	7/13/2011	ришано антушние	Aii, Method	o, Non-caremogen, Standard Formula Value
realue: changed to: Researched-No Data Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Change A/13/2011 phthalic anhydride Air, Method B, Non-Carcinogen, Standard Formula Value Changes Made Comments Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Comments Date of Changes Made Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Changes Made Comments Changes Made Comments Parameter Changes Made Comments Date of Changes Made Comments Previous 3.4E-02 mg/kg-day value: No Data. What are my options? Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments de extended: Guided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note cupdated from 0 to 3 on May 11 2011 3:54PM Date of Change A/13/2011 phenol Surface Water, Method C, Non-Carcinogen, Standard Formula Value Changes Made Changes to CLARC cleanup levels based on update toxicity values of Change I.4E+06 μg/L Changes to CLARC cleanup levels based on update toxicity values (December 2010) Change Made Changes Made Comments Changes Made Comments Changes Made Comments Parameter Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Non-Carcinogen, Standard Formula Value Change Made Changes to CLARC cleanup levels based on update toxicity values (December 2010) Changes Made Comments Change		-		Comments
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previous value: changed to: Researched-No Data Changes to CLARC cleanup levels based on update toxicity values (December 2010) Change A/13/2011 phthalic anhydride Inhalation Reference Dose (RfDi) Changes Made Previous 3.4E-02 mg/kg-day Value: Changed to: No Data. What are my options? Chemical Changes Water, Method C, Non-Carcinogen, Standard Formula Value: Changes Made Comments Parameter Changes to CLARC toxicity values from IRIS or NCEA (December 2010) comments, ds extended: Guidance is provided when toxicity values are unavailable in previded from 0 to 3 on May 11 2011 3:54PM Changes Changes Changes Made Comments Parameter Changes to CLARC cleanup levels based on update toxicity values (December 2010) Changes Water, Method B, Non-Carcinogen, Standard Formula Value Changes Changes Water, Method B, Non-Carcinogen, Standard Formula Value Changes Made Changes Water, Method B, Non-Carcinogen, Standard Formula Value Changes Made Comments Changes Made Changes Made Comments Changes Made Changes Made Comments Changes Made Changes Made Comments	+/ TO/ZOTT	primano armyanae	7tii, Wotilod	B, Non Carolingen, Clandard Formula Value
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Date of Changes Made Comments Change Water, Method C, Non-Carcinogen, Standard Formula Value Changes Made Changes Made Change Made Changed to: Changes Made Changed to: Changes Made Changed to: Chemical Chemical Chemical Chemical Chemical Chemical Chemical Changes Change Change Change Chemical Chemical Changes Change Change Change Change Change Change Changes Changes	•	5.5E+U1	µg/m3	
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previous value: changed to: No Data. What are my options? No Data. What are my options? No Data. What are my options? Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Date of Chemical Parameter Change Made Comments Previous value: Changes Made Comments Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Date of Chemical Parameter Change Water, Method B, Non-Carcinogen, Standard Formula value: Change Water, Method B, Non-Carcinogen, Standard Formula Value Change Water, Method B, Non-Carcinogen, Standard Formula Value Change Water, Method B, Non-Carcinogen, Standard Formula Value Changes Made Comments Parameter Changes Made Comments Changes Made Comments Previous Value: Changes Made Comments		phthalic anhydride	Inhalation R	eference Dose (RfDi)
Surface Water, Method C, Non-Carcinogen, Standard Formula Value				
value: changed to: No Data. What are my options? Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Date of Change Parameter	orevious	_	ma/ka-dav	Comments
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Change 4/13/2011 phenol Surface Water, Method C, Non-Carcinogen, Standard Formula Value Changes Made Comments previous value: 2.8E+06 μg/L Changes to CLARC cleanup levels based on update toxicity values (December 2010) Date of Change Chemical Parameter Change Parameter Parameter Change Value Comments Previous value: 1.1E+06 μg/L Changed to: 5.6E+05 μg/L Changes to CLARC cleanup levels based on update				
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previous value: changed to: 1.4E+06 Date of Chemical Change 4/13/2011 Changes Made Changes Made Changes Made Previous value: changed to: Changes Made previous value: changed to: Changes Made Changes Made Changes Made previous value: changed to: Changes Made previous value: changed to: Changes Made Changes Made previous value: changed to: Changes Made Changes Made previous value: changed to: Changes Made Changes Made Comments previous value: changed to: Changes Made Changes Made Comments previous value: changed to: Changes Made Changes Made Changes Made Comments previous value: changed to: Changes Made Changes Made Changes Made Comments Changes Made	Change			
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Change Surface Water, Method B, Non-Carcinogen, Standard Formula Value Changes Made Comments previous value: 1.1E+06 changed to: 5.6E+05 μg/L Changes to CLARC cleanup levels based on update	Change 4/13/2011 previous	phenol Changes Made	Value	ter, Method C, Non-Carcinogen, Standard Formula
Change Surface Water, Method B, Non-Carcinogen, Standard Formula Value Changes Made Comments previous value: 1.1E+06 changed to: 5.6E+05 μg/L Changes to CLARC cleanup levels based on update	Change 4/13/2011 previous value:	Changes Made 2.8E+06	Value μg/L	ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update
Value Changes Made Comments previous 1.1E+06 μg/L value: μg/L Changes to CLARC cleanup levels based on update	Change 4/13/2011 previous value: changed to:	Changes Made 2.8E+06 1.4E+06	Value μg/L	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
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previous 1.1E+06 μg/L value: changed to: 5.6E+05 μg/L Changes to CLARC cleanup levels based on update	change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+06 1.4E+06 Chemical	Value μg/L μg/L Surface Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
value: changed to: 5.6E+05 μg/L Changes to CLARC cleanup levels based on update	change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.8E+06 1.4E+06 Chemical phenol	Value μg/L μg/L Surface Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula
	change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.8E+06 1.4E+06 Chemical phenol Changes Made	Value μg/L μg/L Surface Wa Value	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula
	Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 2.8E+06 1.4E+06 Chemical phenol Changes Made 1.1E+06	Value μg/L μg/L Surface Wa Value μg/L	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments

Date of Change	Chemical		Parameter
4/13/2011	phenol	Soil, Method	d C, Non-carcinogen, Standard Fomula Value, Direct
			gestion only), industrial land use
	Changes Made		Comments
previous value:	2.1E+06	mg/kg	
changed to:	1.1E+06	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	phenol		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	4.8E+04	mg/kg	
value: changed to:	2.4E+04	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Data of	Chamical		Donomotor
Date of Change	Chemical		Parameter
4/13/2011	phenol	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	1.1E+04	μg/L	
changed to:	5.3E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	phenol	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	4.8E+03	μg/L	
changed to:	2.4E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	phenol	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous value:	6.E-01	mg/kg-day	
changed to:	3.E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change	north a r	Coll B4 ct	d C. Carainagen Otandard Familia 12 Val Di
4/13/2011	perthane		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	4.E+05	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	perthane	Soil Method	d C, Non-carcinogen, Standard Fomula Value, Direct
.,	Political		gestion only), industrial land use
	Changes Made		Comments
nrevious	1.16704	mg/kg	
value:			
previous value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
value:	Researched-No Data		

	·		d B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	3.E+03	mg/kg	Commence
value:	0.2.00	9,9	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	perthane		d B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
			ener. emy), am een een an a ee
	Changes Made		Comments
previous value:	2.4E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0 10 (D (D(D))
4/13/2011	perthane	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	3.E-03	mg/kg-day	Comments
value:			
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	Chemical		raiametei
4/13/2011	perthane	Oral Cancer	Potency Factor (CPFo)
			,
	Changes Made		Comments
previous value:	3.3E-04	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
Date of	No Data. What are my options? Chemical		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_co
Date of Change	Chemical	Surface Wa	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_composite updated from 0 to 3 on May 11 2011 3:54PM Parameter
Date of Change		Surface Wa	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_compdated from 0 to 3 on May 11 2011 3:54PM
Date of Change	Chemical	Surface Wa	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_composite updated from 0 to 3 on May 11 2011 3:54PM Parameter
Date of Change 4/13/2011 previous	Chemical pentachlorophenol	Surface Wa	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value: changed to:	Chemical pentachlorophenol Changes Made		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value: changed to:	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01	μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_composite updated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to:	Chemical pentachlorophenol Changes Made 1.2E+02	μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01	μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_composite updated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical	μg/L μg/L Surface Wa	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol	μg/L μg/L Surface Wa	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04	μg/L μg/L Surface Wa Value	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made	μg/L μg/L Surface Wa Value	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03	μg/L μg/L Surface Wa Value	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_crupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04	μg/L μg/L Surface Wa Value	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change to:	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03	μg/L μg/L Surface Wa Value μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change to:	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03 Chemical pentachlorophenol	μg/L μg/L Surface Wa Value μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03 Chemical pentachlorophenol Changes Made	μg/L μg/L Surface Wa Value μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03 Chemical pentachlorophenol	μg/L μg/L Surface Wa Value μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03 Chemical pentachlorophenol Changes Made	μg/L μg/L Surface Wa Value μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 Date of Change to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 Date of Change to:	Chemical pentachlorophenol Changes Made 1.2E+02 3.7E+01 Chemical pentachlorophenol Changes Made 1.8E+04 3.E+03 Chemical pentachlorophenol Changes Made 4.9E+00	μg/L μg/L Surface Wa Value μg/L μg/L μg/L μg/L	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)

4/13/2011	pentachlorophenol	Surface W	ater, Method B, Non-Carcinogen, Standard Formula
	Changes Made		Comments
previous	7.1E+03	μg/L	Comments
value:	1.25+02	/1	Changes to CLABC alconus levels based on undeted
changed to:	1.2E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	pentachlorophenol		od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use
	Changes Made		Comments
previous value:	1.1E+03	mg/kg	
changed to:	3.3E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol		od C, Non-carcinogen, Standard Fomula Value, Direct agestion only), industrial land use
	Changes Made		Comments
previous value:	1.1E+05	mg/kg	
changed to:	1.8E+04	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Doto of	Chaminal		Doromotor
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol		od B, Carcinogen, Standard Formula Value, Direct
	Changes Made		Comments
previous	8.3E+00	mg/kg	Comments
value: changed to:	2.5E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol		od B, Non-carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
	Changas Mada		Comments
previous	Changes Made 2.4E+03	mg/kg	Comments
value: changed to:	4.E+02	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol	Ground W	ater, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	7.3E+00	μg/L	25
value: changed to:	2.2E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			·
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol	Ground Walue	ater, Method C, Non-carcinogen, Standard Formula
	Changes Made	,	Comments
previous	1.1E+03	μg/L	Comments
value: changed to:	1.8E+02	µg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		,	
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol	Ground W	ater, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments

previous	7.3E-01	μg/L	
value: changed to:	2.2E-01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
		-	Colony values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	pentachlorophenol	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made	<u> </u>	Comments
previous value:	4.8E+02	μg/L	
changed to:	8.E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	pentachlorophenol	Oral Refere	ence Dose (RfDo)
	Changes Made		Comments
previous value:	3.E-02	mg/kg-day	
changed to:	5.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	pentachlorophenol	Oral Cance	r Potency Factor (CPFo)
1710/2011		1	
previous	Changes Made 1.2E-01	kg-day/mg	Comments
value: changed to:	4.E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	pentabromodiphenyl ether;	Air, Method	C, Non-carcinogen, Standard Formula Value
	2,2',4,4',5-		
previous	Changes Made 3.5E-01	μg/m3	Comments
value: changed to:	Researched-No Data	μ9,σ	Changes to CLARC cleanup levels based on update
onangea to.	Nescarcifed No Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	pentabromodiphenyl ether;	Air Method	B, Non-Carcinogen, Standard Formula Value
	2,2',4,4',5-	7, 111041104	To the state of th
provious	Changes Made		Comments
previous value:	1.6E-01	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter Parame
Change 4/13/2011	pentabromodiphenyl ether;	Surface Ma	ater, Method C, Non-Carcinogen, Standard Formula
⊣/ 1 U/ ∠ U I I	2,2',4,4',5-	Value	ator, wichiod o, Norr-Carolilogon, Standard Fullilda
	Changes Made		Comments
previous value:	3.6E-01	μg/L	
changed to:	8.E-02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	pentabromodiphenyl ether;	Surface Ma	ater, Method B, Non-Carcinogen, Standard Formula
4 /13/2011	2,2',4,4',5-	Value	ater, Method B, Norr-Carcinogeri, Standard Formula
	Changes Made		Comments
previous value:	6.E-01	μg/L	
changed to:	3.2E-02	μg/L	Changes to CLARC cleanup levels based on update

μg/L

			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	paraquat		C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
	Changes Made		Comments
previous	1.6E+04	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	paraquat		B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), unrestricted land use
nrovious	Changes Made 3.6E+02		Comments
previous value: changed to:	Researched-No Data	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	paraquat	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous value: changed to:	4.5E-03 No Data. What are my options?	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:54PM
Date of Change	Chemical		Parameter
4/13/2011	pah		C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
previous value:	Changes Made	mg/kg	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	pah		B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	1.4E-01	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	pah	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
	7.3E+00	kg-day/mg	
previous value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
value:			Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
value: changed to:	No Data. What are my options?		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
value: changed to:			(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
value: changed to:	No Data. What are my options?	Air, Method	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM

value:			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		1	
Date of Change	Chemical		Parameter
4/13/2011	octabromodiphenyl ethers	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	4.8E+00	μg/m3	
value:	Danas and Na Data		Changes to CLADC alcoming levels based on implete
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrotoluenes;o-,m-,p-	1	d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	3.5E+04	mg/kg	Commons
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrotoluenes;o-,m-,p-		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	8.E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		Parameter
4/13/2011	nitrotoluenes;o-,m-,p-	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	1.8E+02	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrotoluenes;o-,m-,p-	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	8.E+01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	nitrotoluenes;o-,m-,p-	Oral Refere	nce Dose (RfDo)
., 10,2011		CIGITICIEIE	
nrovio:::	Changes Made	mn = /! -= 1	Comments
previous value:	1.E-02	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	O.I.O.IIIIOUI		- didiliotor
4/13/2011	nitrotoluene, p-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	3.5E+04	ma/ka	Comments

mg/kg

previous

3.5E+04

value:			
changed to:	1.4E+04	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	nitrotoluene, p-		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Oleman Mede		
previous	Changes Made 8.E+02	mg/kg	Comments
value:		-	
changed to:	3.2E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrotoluene, p-	Ground War Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	1.8E+02	μg/L	
value: changed to:	7.E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chamical		Davameter
Date of Change	Chemical		Parameter
4/13/2011	nitrotoluene, p-	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
• • • •	Changes Made		Comments
previous value:	8.E+01	μg/L	
changed to:	3.2E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrotoluene, p-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious value:	1.E-02	mg/kg-day	
changed to:	4.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Date of Change	Cnemical		Parameter
4/13/2011	nitrotoluene, p-	Oral Cancer	r Potency Factor (CPFo)
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	1.6E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			- 4.4
4/13/2011	nitrotoluene, o-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	3.5E+04	mg/kg	
changed to:	3.2E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
	nitrotoluene, o-		d B, Non-carcinogen, Standard Formula Value, Direct
Change 4/13/2011			gestion only), unrestricted land use
4/13/2011	Changes Made		Comments
	Changes Made 8.E+02	mg/kg	Comments

Date of	Chemical		Parameter
Change 4/13/2011	nitrotoluene, o-	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
		value	
previous	Changes Made	μg/L	Comments
value:			
changed to:	1.6E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	20 4 1	0 114	
4/13/2011	nitrotoluene, o-	Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious value:	8.E+01	μg/L	
changed to:	7.2E+00	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	nitrotoluene, o-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	1.E-02	mg/kg-day	Comments
value: changed to:	9.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
orialiyed to.	9.L-0 4	nig/kg-uay	(December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrotoluene, o- Oral Cancer Po		r Potency Factor (CPFo)
	Changes Made		Comments
orevious value:	Researched-No Data		
changed to:	2.2E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Data of	Chamical		Devemeter
Date of Change	Chemical		Parameter
4/13/2011	nitrotoluene, m-		d C, Non-carcinogen, Standard Fomula Value, Direct pestion only), industrial land use
	Changes Made		Comments
previous	3.5E+04	mg/kg	
value: changed to:	3.5E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	nitrotoluene, m-		d B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), unrestricted land use
	Changes Made 8.E+02	mg/kg	Comments
orevious			
value:	8.E+00	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
value:			
value: changed to:	Chemical		Parameter Parame
value: changed to: Date of Change	Chemical nitrotoluene, m-		Parameter ter, Method C, Non-carcinogen, Standard Formula
value: changed to: Date of Change	nitrotoluene, m-	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
value: changed to: Date of Change 4/13/2011	nitrotoluene, m-	Value	
previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	nitrotoluene, m-		ter, Method C, Non-carcinogen, Standard Formula

Date of Change	Chemical	Parameter
4/13/2011	nitrotoluene, m-	Ground Water, Method B, Non-carcinogen, Standard Formula

		\		
		Value		
previous	Changes Made 8.E+01	μg/L	Comments	
value: changed to:	8.E-01	μg/L	Changes to CLARC cleanup levels based on updatoxicity values (December 2010)	
			toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	nitrotoluene, m-	Oral Refere	nce Dose (RfDo)	
	Changes Made		Comments	
previous value:	Changes Made 1.E-02	mg/kg-day	Comments	
changed to:	1.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Obamical		Parameter	
Date of Change	Chemical		Parameter	
4/13/2011	nitroso-n-ethylurea;n-		d C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use	
	Changes Made		Comments	
previous	9.4E-01	mg/kg	Commonto	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on upda toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	nitroso-n-othyluroo:n	Soil Mother	d B, Carcinogen, Standard Formula Value, Direct	
+/ 13/2UTT	nitroso-n-ethylurea;n-	Contact (ing	estion only), unrestricted land use	
	Changes Made		Comments	
previous	7.1E-03	mg/kg	Comments	
value: changed to:	Researched-No Data	J. J	Changes to CLARC cleanup levels based on upda toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	nitroso-n-ethylurea;n-	Oral Cancer	Potency Factor (CPFo)	
	Changes Made		Comments	
previous value:	1.4E+02	kg-day/mg		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidan is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM	
Date of Change	Chemical		Parameter	
4/13/2011	nitrosodimethylamine;N-	Oral Refere	nce Dose (RfDo)	
previous value:	Changes Made Researched-No Data		Comments	
changed to:	8.E-06	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
			Parameter	
Date of	Chemical		Inhalation Reference Dose (RfDi)	
Date of Change 4/13/2011	Chemical nitrosodimethylamine;N-	Inhalation R	eference Dose (RfDi)	
Change	nitrosodimethylamine;N-	Inhalation R	eference Dose (RfDi) Comments	
Change 4/13/2011 previous		Inhalation R		
Change 4/13/2011	nitrosodimethylamine;N- Changes Made	Inhalation R		

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Air, Method C, Carcinogen, Standard Formula Value

	Chan	ges Made	Comments
previous value:	9.3E-03	μg/m3	
changed to:	9.3E-03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Air, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	9.3E-04	μg/m3	
changed to:	9.3E-04	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	1.4E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	1.1E-01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Mad	de	Comments
previous value:	4.6E-02	µg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	4.6E-03	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Oral Cancer Potency Factor (CPFo)

	Changes Made		Comments
previous value:	9.5E+00	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	nitropropane;2-	Inhalation Cancer Potency Factor (CPFi)

	Changes Made		Comments
previous value:	9.4E+00	kg-day/mg	

changed to:	9.5E+00	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	nitrofurazone		d C, Carcinogen, Standard Formula Value, Direct lestion only), industrial land use
previous	Changes Made 8.8E+01	ma /lea	Comments
value: changed to:	Researched-No Data	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	nitrofurazone		d B, Carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use
	Changes Made		Comments
previous	6.7E-01	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		1	1 12 12 13 12 12 12 12 12 12 12 12 12 12 12 12 12
Date of Change	Chemical		Parameter
4/13/2011	nitrofurazone	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	5.8E-01	μg/L	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	nitrofurazone	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
T/ 10/2011	THEOTOTOLOGIC	Ciodila Wal	or, Motriod D, Carolinogeri, Standard Formula Value
orevious	Changes Made 5.8E-02	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	nitrofurazone	Oral Cancer	Potency Factor (CPFo)
previous	Changes Made 1.5E+00	kg-day/mg	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
changed to.	No Data. What are my options:		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change 4/13/2011	nitrobenzene	Air, Method	C, Non-carcinogen, Standard Formula Value
		,	
previous	Changes Made 6.E-01	μg/m3	Comments
value: changed to:	9.E+00	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			·
Date of Change	Chemical		Parameter
4/13/2011	nitrobenzene	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	2.7E-01	μg/m3	

Date of	Ole annie al		Davamata
Date of Change	Chemical		Parameter
4/13/2011	nitrobenzene	Surface W Value	Vater, Method C, Non-Carcinogen, Standard Formula
	Changes Ma	de	Comments
previous value:	1.1E+03	μg/L	
changed to:	4.5E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	nitrobenzene		Vater, Method B, Non-Carcinogen, Standard Formula
		Value	
previous value:	Changes Ma 4.5E+02	μg/L	Comments
changed to:	1.8E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0 "	
4/13/2011	nitrobenzene		nod C, Non-carcinogen, Standard Fomula Value, Direct ngestion only), industrial land use
	Changes Ma		Comments
previous value:	1.8E+03	mg/kg	
changed to:	7.E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	nitrobenzene		nod B, Non-carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
	Changes Ma	de	Comments
previous value:	4.E+01	mg/kg	
changed to:	1.6E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	nitrobenzene	Ground W Value	/ater, Method C, Non-carcinogen, Standard Formula
	Changes Ma	de	Comments
previous value:	8.8E+00	μg/L	
changed to:	3.5E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	nitrobenzene	Ground W Value	/ater, Method B, Non-carcinogen, Standard Formula
	Changes Ma	nde.	Comments
previous	4.E+00	μg/L	Comments
•			
value: changed to:	1.6E+01	μg/L	
value:	1.6E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
value:		μg/L	toxicity values (December 2010)
alue: hanged to:	1.6E+01 Chemical	μg/L	

changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Date of Change	Chemical		Parameter

mg/kg-day

4/13/2011

previous value:

nitrobenzene

5.E-04

Changes Made

Oral Reference Dose (RfDo)

Comments

	Chang	es Made	Comments
previous value:	1.7E-04	mg/kg-day	
changed to:	2.6E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitrobenzene	Inhalation Cancer Potency Factor (CPFi)

	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	1.4E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitroaniline, 2-	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	2.E-01	μg/m3	
changed to:	5.E-02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitroaniline, 2-	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Mac	le	Comments
previous value:	9.1E-02	μg/m3	
changed to:	2.3E-02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitroaniline, 2-	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	1.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitroaniline, 2-	Inhalation Reference Dose (RfDi)

	Changes Made		Comments
previous value:	5.7E-05	mg/kg-day	
changed to:	1.4E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitrite	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
changed to:	8.E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	nitrate	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Mad	de	Comments
previous value:	3.5E+05	mg/kg	
changed to:	5.6E+06	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of	Chemical		Parameter
Change			
4/13/2011	nitrate		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	8.E+03	mg/kg	
value: changed to:	1.3E+05	mg/kg	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	monochlorobutanes	Soil. Method	d C, Non-carcinogen, Standard Fomula Value, Direct
			gestion only), industrial land use
	Changes Made		Comments
orevious value:	1.4E+06	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	monochlorobutanes		d B, Non-carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use
	Changes Made		Comments
orevious value:	3.2E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Onemical		r di diliotoi
4/13/2011	monochlorobutanes	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious /alue:	4.E-01	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable fro MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change			
4/13/2011	mirex		d C, Carcinogen, Standard Formula Value, Direct pestion only), industrial land use
orovious	Changes Made		Comments
orevious ⁄alue:	7.3E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	mirex		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
orevious	5.6E-01	mg/kg	Commonts
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	mirex	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
•	4.9E-01	μg/L	
previous value: changed to:	-	μg/L	Changes to CLARC cleanup levels based on updat

Date of	Chemical		Parameter
Change	Jiloinioai		
4/13/2011	mirex	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Channa Mad-		Comments
previous	Changes Made 4.9E-02	μg/L	Comments
value:	1.76 04	P9/ ⊏	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	mirex	Oral Cancer	r Potency Factor (CPFo)
previous	Changes Made 1.8E+00	kg-day/mg	Comments
value:	1.02+00	kg-uay/ilig	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	Guernicai		Parameter
4/13/2011	mevinphos		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	8.8E+02	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
onangou to.	Nescarencu-No Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0	
4/13/2011	mevinphos		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	2.E+01	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Olicinical		i didilicici
4/13/2011	mevinphos	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	8.8E+00	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date			
Date of Change	Chemical		Parameter
4/13/2011	mevinphos	Ground Wat	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	4.E+00	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter Parame
Change 4/13/2011	mevinphos	Oral Refere	nce Dose (RfDo)
nrevious	Changes Made	malka dan	Comments
previous value:	2.5E-04	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM

Date of	Chemical		Parameter
Change	7		
4/13/2011	methylhydrazine		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use
	Changes Made		Comments
previous	1.2E+02	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methylhydrazine	Soil Method	d B, Carcinogen, Standard Formula Value, Direct
7/10/2011	mearymydrazme		pestion only), unrestricted land use
	Changes Made		Comments
previous	9.1E-01	mg/kg	Comments
value:	5.22 52		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		i didillotti
4/13/2011	methylhydrazine	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
			<u> </u>
	Changes Made		Comments
previous	4.E-01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Silonii Gai		r didiliotor
4/13/2011	methylhydrazine	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	4.E-02	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Gireniour		raidillotor
4/13/2011	methylhydrazine	Oral Cancer	: Dotonou Footor (CDFo)
	Incuryinyurazine	Ciai Caricci	Potency Factor (CPFo)
	metryinyurazine	Olai Galicci	Potency Factor (CFF0)
	Changes Made	Oral Garicei	Comments
•		kg-day/mg	
value:	Changes Made		Comments
value:	Changes Made		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from
value:	Changes Made 1.1E+00 No Data. What are my options?		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
value: changed to: Date of	Changes Made		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
value: changed to: Date of Change	Changes Made 1.1E+00 No Data. What are my options? Chemical	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter
value: changed to: Date of Change	Changes Made 1.1E+00 No Data. What are my options?	kg-day/mg Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
value: changed to: Date of Change	Changes Made 1.1E+00 No Data. What are my options? Chemical	kg-day/mg Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C. Carcinogen, Standard Formula Value, Direct
value: changed to: Date of Change 4/13/2011	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4-	kg-day/mg Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C. Carcinogen, Standard Formula Value, Direct lestion only), industrial land use
Date of Change 4/13/2011 previous value:	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C, Carcinogen, Standard Formula Value, Direct lestion only), industrial land use Comments Changes to CLARC cleanup levels based on updates
value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter CC, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments
Date of Change 4/13/2011 previous value: changed to:	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C, Carcinogen, Standard Formula Value, Direct lestion only), industrial land use Comments Changes to CLARC cleanup levels based on updates
Date of Change 4/13/2011 previous value: changed to:	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02 Researched-No Data	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM Parameter CC, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02 Researched-No Data	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter CC, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02 Researched-No Data Chemical methylenebisbenzenamine;4,4-	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter CC, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02 Researched-No Data Chemical methylenebisbenzenamine;4,4- Changes Made	kg-day/mg Soil, Method Contact (ing mg/kg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM Parameter C., Carcinogen, Standard Formula Value, Direct destion only), industrial land use Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B., Carcinogen, Standard Formula Value, Direct destination of the provided standard formula Value of the provided standard
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.1E+00 No Data. What are my options? Chemical methylenebisbenzenamine;4,4- Changes Made 5.3E+02 Researched-No Data Chemical methylenebisbenzenamine;4,4-	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:54PM Parameter CC, Carcinogen, Standard Formula Value, Direct justion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct justion only), unrestricted land use

Date of Change	Chemical		Parameter
4/13/2011	methylenebisbenzenamine;4,4-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.5E+00	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
changed to.	Researcheu-No Data		toxicity values (December 2010)
Date of	Chemical	1	Parameter
Change	Gleinicai		Farameter
4/13/2011	methylenebisbenzenamine;4,4-	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.5E-01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Olicinical		i didilicici
4/13/2011	methylenebisbenzenamine;4,4-	Oral Cance	r Potency Factor (CPFo)
	Changes Made	les de 1	Comments
orevious ⁄alue:	2.5E-01	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	Gileinioui		raidiffeter
4/13/2011	methylene diphenyl diisocyanate (PMDI)	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	6.E-01	μg/m3	
value: changed to:	6.E-01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	methylene diphenyl diisocyanate (MDI)	Air, Method	C, Non-carcinogen, Standard Formula Value
orevious	Changes Made 6.E-01	μg/m3	Comments
/alue:			
changed to:	6.E-01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	GHeimical		r ai ailletei
4/13/2011	methylene chloride	Air, Method	C, Non-carcinogen, Standard Formula Value
orevious	Changes Made	ua/m2	Comments
orevious value:	3.E+03	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	methylene chloride	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
	1.4E+03	μg/m3	
orevious value:		1 5.	

Date of Change	Chemical		Parameter
4/13/2011	methylene chloride	Inhalation R	reference Dose (RfDi)
provious	Changes Made	ma/ka day	Comments
previous value:	8.6E-01	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change	and the damp to the provide	labalatian D	of any and Dane (DfDi)
4/13/2011	methylene bromide	Innaiation R	Reference Dose (RfDi)
	Changes Made		Comments
orevious	Researched-No Data		
value: changed to:	1.1E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methylene bis(2- chloroaniline);4,4'-	Air, Method	C, Carcinogen, Standard Formula Value
arovious	Changes Made	110/22	Comments
previous value:	6.7E-01	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Date of Change	Guernical		raiailletei
4/13/2011	methylene bis(2- chloroaniline);4,4'-	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious	6.7E-02	μg/m3	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change	onomiou.		i didiliotoi
1/13/2011		Soil, Method	d C, Carcinogen, Standard Formula Value, Direct
	methylene bis(2-chloroaniline);4,4'-		gestion only), industrial land use
	chloroaniline);4,4'-		
orevious	chloroaniline);4,4'- Changes Made	Contact (ing	comments
	chloroaniline);4,4'-		
/alue:	chloroaniline);4,4'- Changes Made	Contact (ing	Comments
value: changed to:	Changes Made 1.E+03 1.3E+03	Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
value: changed to:	Changes Made 1.E+03	Contact (ing	Comments Changes to CLARC cleanup levels based on update
value: changed to: Date of Change	Changes Made 1.E+03 1.3E+03	mg/kg mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter
Date of Change 4/13/2011	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2-chloroaniline);4,4'- Changes Made	mg/kg mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter d C, Non-carcinogen, Standard Fomula Value, Direct
Date of Change 4/13/2011 Drevious value:	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2-chloroaniline);4,4'- Changes Made 2.5E+03	mg/kg mg/kg Soil, Method	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments
Date of Change 4/13/2011 Drevious value:	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2-chloroaniline);4,4'- Changes Made 2.5E+03	mg/kg mg/kg Soil, Method Contact (ing	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments
Date of Change 4/13/2011 Drevious value: changed to:	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2-chloroaniline);4,4'- Changes Made 2.5E+03	mg/kg mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on update
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2-chloroaniline);4,4'- Changes Made 2.5E+03 7.E+03 Chemical methylene bis(2-chloroaniline);4,4'-	mg/kg mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter C. Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B. Carcinogen, Standard Formula Value, Direct
value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2- chloroaniline);4,4'- Changes Made 2.5E+03 7.E+03 Chemical methylene bis(2- chloroaniline);4,4'-	mg/kg mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter C. Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter d. B. Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2-chloroaniline);4,4'- Changes Made 2.5E+03 7.E+03 Chemical methylene bis(2-chloroaniline);4,4'-	mg/kg mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter C. Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter B. Carcinogen, Standard Formula Value, Direct
value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.E+03 1.3E+03 Chemical methylene bis(2- chloroaniline);4,4'- Changes Made 2.5E+03 7.E+03 Chemical methylene bis(2- chloroaniline);4,4'-	mg/kg mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter C. Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter d. B. Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use

Date of	Chemical	Parameter		
Change	Ciletificat		ratametei	
4/13/2011	methylene bis(2- chloroaniline);4,4'-		d B, Non-carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use	
	Changes Made		Comments	
previous	5.6E+01	mg/kg		
value: changed to:	1.6E+02	mg/kg	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter Parameter	
Change		Ovel Defended Date (DfDe)		
4/13/2011	methylene bis(2- chloroaniline);4,4'-	Oral Refere	nce Dose (RfDo)	
	Changes Made		Comments	
previous	7.E-04	mg/kg-day		
value: changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	methylene bis(2- chloroaniline);4,4'-	Oral Cancer	r Potency Factor (CPFo)	
	Changes Made		Comments	
previous	1.3E-01	kg-day/mg		
value: changed to:	1.E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change	Chemical			
4/13/2011	methylene bis(2- chloroaniline);4,4'-	Inhalation C	ancer Potency Factor (CPFi)	
previous	Changes Made	ka day/ma	Comments	
value:	1.3L-01	kg-day/mg		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidan is provided when toxicity values are unavailable fro MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:54PM	
Date of	Chemical		Parameter	
Change	and the development	Air Mastrael	C. Nan agging and Chandard Farmula Value	
4/13/2011	methylcyclohexane	Air, Method	C, Non-carcinogen, Standard Formula Value	
previous	Changes Made 3.E+03	μg/m3	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update	
changed to.	Researcheu-No Data		toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	methylcyclohexane	Air, Method	B, Non-Carcinogen, Standard Formula Value	
	Changes Made		Comments	
previous	1.4E+03	μg/m3		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	methylcyclohexane	Inhalation R	eference Dose (RfDi)	
	Changes Made		Comments	
previous	8.6E-01	mg/kg-day		

Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM

changed to:

No Data. What are my options?

Date of Change	Chemical		Parameter
4/13/2011	methylaniline;2-		d C, Carcinogen, Standard Formula Value, Direct lestion only), industrial land use
	Changes Made		Comments
previous	5.5E+02	mg/kg	
value: changed to:	Researched-No Data	J. J	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	methylaniline;2-	Soil, Method	d B, Carcinogen, Standard Formula Value, Direct
			estion only), unrestricted land use
	Changes Made		Comments
previous	4.2E+00	mg/kg	Comments
value:	1.22 1 00	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methylaniline;2-	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.8E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	G.I.G.III.Gu.		. Gramoto.
4/13/2011	methylaniline;2-	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	Changes Made 1.8E-01	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	G. Tolling G.		. Gramoto.
4/13/2011	methylaniline;2-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous	2.4E-01	kg-day/mg	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change 4/13/2011	methylaniline hydrochloride;2-		d C, Carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), industrial land use
	Changes Made		Comments
previous value:	7.3E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methylaniline hydrochloride;2-		d B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made 5.6E+00	mg/kg	Comments
nrovious	· · · · · · · · · · · · · · · · · · ·	LITICI/K(1	
previous value:	3.0L+00	1119/109	

Date of	Chemical		Parameter
Change 4/13/2011	methylaniline hydrochloride;2-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	4.9E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Data of	Ohamiaal	I	Parameter
Date of Change	Chemical	_	Parameter
4/13/2011	methylaniline hydrochloride;2-	Ground Water, Method B, Carcinogen, Standard Formula	
	Changes Made		Comments
previous value:	4.9E-01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	methylaniline hydrochloride;2-	Oral Cancer	Potency Factor (CPFo)
previous	Changes Made 1.8E-01	kg-day/mg	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from
			MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change			
4/13/2011	methyl tert-butyl ether	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	9.6E+01	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Data of	Ohamiaal	I	Donomoton
Date of Change	Chemical		Parameter
4/13/2011	methyl tert-butyl ether	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	9.6E+00	μg/m3	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	methyl tert-butyl ether		d C, Carcinogen, Standard Formula Value, Direct pestion only), industrial land use
	Channes Mad		
orevious	Changes Made 7.3E+04	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methyl tert-butyl ether		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
orevious value:	Changes Made 3.E+06	mg/kg	Comments

			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		Farameter
4/13/2011	methyl tert-butyl ether	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use	
	Changes Made	`	Comments
orevious value:	5.6E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methyl tert-butyl ether		nod B, Non-carcinogen, Standard Formula Value, Directingestion only), unrestricted land use
	Changes Made		Comments
orevious value:	6.9E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter Parame
Change	mothyl tort butyl other	Ground M	Vator Mothod C. Carolingan, Standard Farmula Value
4/13/2011	methyl tert-butyl ether	Ground W	Vater, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious ⁄alue:	2.4E+02	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical	Parameter	
Change	and that to the		
4/13/2011	methyl tert-butyl ether	Ground Water, Method C, Non-carcinogen, Standard Formula Value	
	Changes Made		Comments
orevious value:	1.5E+04	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	methyl tert-butyl ether	Ground W	Vater, Method B, Carcinogen, Standard Formula Value
orevious value:	Changes Made 2.4E+01	μg/L	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0	
I/13/2011	methyl tert-butyl ether	Ground W Value	Vater, Method B, Non-carcinogen, Standard Formula
anovior	Changes Made	n	Comments
orevious value: changed to:	6.9E+03 Researched-No Data	μg/L	Changes to CLARC cleanup levels based on update
yeu (0.	ivesearcheu-ind Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	methyl tert-butyl ether	Oral Reference Dose (RfDo)	
	Changes Made		Comments Lindeted CLARC toxicity yelly as from IRIS or NCCA
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanci is provided when toxicity values are unavailable from

updated from	0 to 3 on May 11	2011	3:54PM
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Date of Change	Chemical	Parameter
4/13/2011	methyl tert-butyl ether	Oral Cancer Potency Factor (CPFo)

	Changes Made	Comments
changed to:	No Data. What are my options?	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	methyl styrene	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.5E+01	μg/m3	
changed to:	4.E+01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methyl styrene	Air, Method B, Non-Carcinogen, Standard Formula Value

	Change	s Made	Comments
previous value:	1.6E+01	μg/m3	
changed to:	1.8E+01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methyl styrene	Inhalation Reference Dose (RfDi)

Changes Made		Comments	
previous value:	1.E-02	mg/kg-day	
changed to:	1.1E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methyl isobutyl ketone	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	7.E+01	μg/m3	
changed to:	3.E+03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methyl isobutyl ketone	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.2E+01	μg/m3	
changed to:	1.4E+03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter	
4/13/2011 methyl isobutyl ketone		Inhalation Reference Dose (RfDi)	
	Ol au ma Ma La	0	

	Changes Made		Comments
previous value:	2.E-02	mg/kg-day	
changed to:	8.6E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of	Chemical		Parameter
Change			
4/13/2011	methyl ethyl ketone	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.E+03	μg/m3	
changed to:	5.E+03	μg/m3	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	methyl ethyl ketone	Air Method	B, Non-Carcinogen, Standard Formula Value
4/10/2011	metryr ctrlyr ketorie	All, Method	2, Non Gareinogen, Gtandard Formula Value
	Changes Made		Comments
previous value:	4.6E+02	μg/m3	
changed to:	2.3E+03	μg/m3	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methyl ethyl ketone	Inhalation R	eference Dose (RfDi)
orevious	Changes Made 2.9E-01	mg/kg-day	Comments
value:		,	
changed to:	1.4E+00	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
			(2000:1100: 2010)
Date of	Chemical		Parameter
Change	Chemical		Farameter
4/13/2011	methoxyethanol;2-		C, Non-carcinogen, Standard Fomula Value, Direct
		Contact (ing	gestion only), industrial land use
	Changes Made		Comments
orevious value:	3.5E+03	mg/kg	
changed to:	1.1E+04	mg/kg	Changes to CLARC cleanup levels based on updat
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	methoxyethanol;2-	Soil, Method	d B, Non-carcinogen, Standard Formula Value, Direct
	·	Contact (ing	gestion only), unrestricted land use
	Changes Made		Comments
orevious	8.E+01	mg/kg	
value: changed to:	2.4E+02	mg/kg	Changes to CLARC cleanup levels based on updat
	2112102	1119/119	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	moth avvioth an ali 2	Cround Wat	tor Mathad C. Nan agrainagen Standard Formula
+/13/2011	methoxyethanol;2-	Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious	Changes Made 1.8E+01	μg/L	Comments
value:			
changed to:	5.3E+01	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	methoxyethanol;2-	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
		value	
	Changes Made		Comments
orevious	8.E+00	μg/L	
vaine.	2.4E+01	μg/L	Changes to CLARC cleanup levels based on updat
value: changed to:	2.7L+01	- 16 - r	
	2.7L T U 1	F-57 =	toxicity values (December 2010)
	2.71.701	(23)	toxicity values (December 2010)
	Chemical	150	toxicity values (December 2010) Parameter

Oral Reference Dose (RfDo)

4/13/2011

methoxyethanol;2-

	Char	nges Made	Comments
previous value:	1.E-03	mg/kg-day	
changed to:	3.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methoxy-5-nitroaniline;2-	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	2.9E+03	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methoxy-5-nitroaniline;2-	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	2.2E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	methoxy-5-nitroaniline;2-	Oral Cancer Potency Factor (CPFo)

	Changes Made		Comments
previous value:	4.6E-02	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	mercury	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	1.1E+03	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	mercury	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	2.4E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	mercury	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.1E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	mercury	Ground Water, Method B, Non-carcinogen, Standard Formula

		Value	
	Changes Mad	de	Comments
previous value:	4.8E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	mercury	Oral Refere	nce Dose (RfDo)
	Changes Mad	de	Comments
	3.E-04	mg/kg-day	

	Changes Made		Comments
previous value:	3.E-04	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM

Date of Change	Chemical	Parameter
4/13/2011	manganese	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	5.E-02	μg/m3	
changed to:	5.E-02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	malononitrile	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	7.E+01	mg/kg	
changed to:	3.5E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	malononitrile	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	1.6E+00	mg/kg	
changed to:	8.E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	malononitrile	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.5E-01	μg/L	
changed to:	1.8E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	malononitrile	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.6E-01	μg/L	
changed to:	8.E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	malononitrile	Oral Reference Dose (RfDo)

previous value:	Changes Made 2.E-05	mg/kg-day	Comments
changed to:	1.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	lead alkyls		C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use
	Changes Made		Comments
previous value:	3.5E-01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	lead alkyls	Soil, Method	d B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made	Tourist (ing	
previous	Changes Made 8.E-03	mg/kg	Comments
value: changed to:	Researched-No Data	J. J	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter Parameter
Change		Ord D. (
4/13/2011	lead alkyls	Oral Refere	nce Dose (RfDo)
previous	Changes Made 1.E-07	mg/kg-day	Comments
value:		ilig/kg-uay	Lie lete I OLABO to 12's and a consulting a NOTA
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cc updated from 0 to 3 on May 11 2011 3:54PM
Date of Change	Chemical		Parameter
4/13/2011	indeno[1,2,3-cd]pyrene	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous	7.3E+00	kg-day/mg	Comments
value: changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Data of	Ohamiaal	T	Parameter
Date of Change 4/13/2011	Chemical hydroquinone	Oral Cancer	Parameter Potency Factor (CPFo)
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	6.E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	hydrogen sulfide	Air Method	C, Non-carcinogen, Standard Formula Value
., . 5, 2011		, Would	
provious	Changes Made 1.E+00	μg/m3	Comments
previous	2.E+00	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value:			
previous value: changed to:			
value:	Chemical		Parameter
value: changed to:	Chemical hydrogen sulfide	Air, Method	Parameter B, Non-Carcinogen, Standard Formula Value

value:			
changed to:	9.1E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	hydrogen sulfide		d C, Non-carcinogen, Standard Fomula Value, Direct jestion only), industrial land use
	Olavana Mada	,	
previous	Changes Made 1.1E+04	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	h la	O.T. Matter	ID No. 1 Control From In Vita Birnt
4/13/2011	hydrogen sulfide		d B, Non-carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
previous	2.4E+02	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	hydrogen sulfide	Ground Wat	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made	value	Comments
previous value:	5.3E+01	μg/L	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	hydrogen sulfide	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	2.4E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
		1	
Date of Change	Chemical		Parameter
4/13/2011	hydrogen sulfide	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	3.E-03	mg/kg-day	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:54PM
Detact			Benevite
Date of Change	Chemical		Parameter
4/13/2011	hydrogen sulfide	Inhalation R	eference Dose (RfDi)
provio	Changes Made	ma = /1 1	Comments
previous value:	2.9E-04	mg/kg-day	
changed to:	5.7E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change		Ain Math	
4/13/2011	hydrogen cyanide	Air, Method	C, Non-carcinogen, Standard Formula Value
<u>.</u>	Changes Made		Comments
previous	3.E+00	μg/m3	
value:		1.3,	

			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	hydrogen cyanide	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Mad	· ·	Comments
previous	1.4E+00	μg/m3	Comments
value:	2.75.01		Changes to CLADC algebras levels based on undetect
changed to:	3.7E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	hydrogen cyanide		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Mad	de	Comments
previous	7.E+04	mg/kg	
value: changed to:	2.1E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Data of	Ohamiaal		Parameter
Date of Change	Chemical		Parameter
4/13/2011	hydrogen cyanide		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Mad	de	Comments
previous	1.6E+03	mg/kg	
value: changed to:	4.8E+01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	hydrogen cyanide		ter, Method C, Non-carcinogen, Standard Formula
	Changes Mad	Value	Comments
•	3.5E+02	μg/L	
value:	3.5E+02 1.1E+01	μg/L μg/L	
previous value: changed to:			Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to:			
value: changed to: Date of Change	1.1E+01	μg/L Ground Wa	toxicity values (December 2010)
value: changed to: Date of Change	Chemical hydrogen cyanide	μg/L Ground Wavalue	Parameter ter, Method B, Non-carcinogen, Standard Formula
value: changed to: Date of Change 4/13/2011 previous	1.1E+01 Chemical	μg/L Ground Wavalue	toxicity values (December 2010) Parameter
value: changed to: Date of Change 4/13/2011 previous value:	Chemical hydrogen cyanide Changes Mac	μg/L Ground Wa Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments
value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00	Ground War Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Drevious value: changed to:	Chemical hydrogen cyanide Changes Mac 1.6E+02	Ground War Value	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updates
Date of Changed to: Date of Change 4/13/2011 Drevious value: changed to: Date of Change	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide	Ground War Value de μg/L μg/L μg/L Oral Refere	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical	Ground War Value de μg/L μg/L μg/L Oral Refere	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change d/13/2011 Date of Change d/13/2011 Date of Change d/13/2011 Date of Change d/13/2011	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide Changes Mac	μg/L Ground Wavalue de μg/L μg/L μg/L μg/L Oral Refere	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value: Change 4/13/2011	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide Changes Mac 2.E-02 6.E-04	μg/L Ground War Value de μg/L μg/L μg/L μg/L Oral Refere de mg/kg-day	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change to:	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide Changes Mac 2.E-02	μg/L Ground War Value de μg/L μg/L μg/L μg/L Oral Refere de mg/kg-day	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA
Date of Change 4/13/2011 Date of Change 6 Change 7 Change 7 Change 7 Change 8 Change 9 Change 9	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide Changes Mac 2.E-02 6.E-04	μg/L Ground Wavalue de μg/L μg/L μg/L μg/L Oral Refere de mg/kg-day mg/kg-day	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change Change Change Date of Change Change Change Change	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide Changes Mac 2.E-02 6.E-04 Chemical hydrogen cyanide	Ground War Value de μg/L μg/L μg/L Oral Refere de mg/kg-day mg/kg-day Inhalation R	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter teference Dose (RfDi)
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical hydrogen cyanide Changes Mac 1.6E+02 4.8E+00 Chemical hydrogen cyanide Changes Mac 2.E-02 6.E-04 Chemical	Ground War Value de μg/L μg/L μg/L Oral Refere de mg/kg-day mg/kg-day Inhalation R	Parameter ter, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of	Chemical		Parameter
Change 4/13/2011	hydrazine sulfate	Oral Cancer	r Potency Factor (CPFo)
previous	Changes Made Researched-No Data		Comments
value: changed to:	3.E+00	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	hydrazine sulfate	Inhalation C	Sancer Potency Factor (CPFi)
7 7 5 7 2 7 7			
previous value:	Changes Made Researched-No Data		Comments
changed to:	1.7E+01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
			(December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	hydrazine	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	8.6E-06	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	hexamethylene diisocyanate;1,6-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	4.6E-03	μg/m3	Comments
value: changed to:	4.6E-03	μg/m3	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Date of Change 4/13/2011	Hexachlorodibenzo-p-dioxin,	Oral Cancer	
Change		Oral Cancer	Parameter
Change 4/13/2011 previous	Hexachlorodibenzo-p-dioxin,	Oral Cancer	Parameter
Change 4/13/2011	Hexachlorodibenzo-p-dioxin, Mixture Changes Made		Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value:	Hexachlorodibenzo-p-dioxin, Mixture Changes Made 6.2E+03		Parameter r Potency Factor (CPFo) Comments
change 4/13/2011 previous value: changed to:	Hexachlorodibenzo-p-dioxin, Mixture Changes Made 6.2E+03 see additional information		Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Change 4/13/2011 previous value:	Hexachlorodibenzo-p-dioxin, Mixture Changes Made 6.2E+03		Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value: changed to: Date of	Hexachlorodibenzo-p-dioxin, Mixture Changes Made 6.2E+03 see additional information	kg-day/mg	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture	kg-day/mg	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin,	kg-day/mg	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi)
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made	kg-day/mg Inhalation C	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi)
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03	kg-day/mg Inhalation C	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03	kg-day/mg Inhalation C	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information	kg-day/mg Inhalation C	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information	kg-day/mg Inhalation C	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information	kg-day/mg Inhalation C kg-day/mg Surface Wa	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Parameter Parameter Parameter Parameter Parameter
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information	kg-day/mg Inhalation C kg-day/mg Surface Wa	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information Chemical hexachlorobutadiene Changes Made	kg-day/mg Inhalation C kg-day/mg Surface Wa Value	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information Changes Made 4.7E+02	kg-day/mg Inhalation C kg-day/mg Surface Wa Value	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Cancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Comments
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information Chemical hexachlorobutadiene Changes Made 4.7E+02 2.3E+03	kg-day/mg Inhalation C kg-day/mg Surface Wa Value	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 6.2E+03 see additional information Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made 4.6E+03 see additional information Changes Made 4.7E+02	kg-day/mg Inhalation C kg-day/mg Surface Wa Value	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated

Surface Water, Method B, Non-Carcinogen, Standard Formula Value

	Chang	ges Made	Comments
previous value:	1.9E+02	μg/L	
changed to:	9.3E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexachlorobutadiene	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	7.E+02	mg/kg	
changed to:	3.5E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexachlorobutadiene	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	1.6E+01	mg/kg	
changed to:	8.E+01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexachlorobutadiene	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.5E+00	μg/L	
changed to:	1.8E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexachlorobutadiene	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.6E+00	μg/L	
changed to:	8.E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexachlorobutadiene	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	2.E-04	mg/kg-day	
changed to:	1.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	7.E+01	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-	Air, Method B, Non-Carcinogen, Standard Formula Value

Changes Made	Comments
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previous value:	3.2E+01	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	havelanes dielen and ethan	Cail Matha	d C. Naga agazina ana Ctandard Famula Valua Direct
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-		d C, Non-carcinogen, Standard Fomula Value, Direct jestion only), industrial land use
	Changes Made		Comments
previous	7.E+04	mg/kg	
value: changed to:	7.E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-		d B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous value:	1.6E+03	mg/kg	
changed to:	1.6E+01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	7.E+02	μg/L	
changed to:	7.E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			,
Date of Change	Chemical		Parameter
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-	Ground Water, Method B, Non-carcinogen, Standard Formula Value	
	Changes Made		Comments
previous value:	3.2E+02	μg/L	
changed to:	3.2E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0.15.6	D (D/D)
4/13/2011	hexabromodiphenyl ether; 2,2',4,4',5,5'-	Oral Refere	nce Dose (RfDo)
	Changes Made	-	Comments
previous	2.E-02	mg/kg-day	
value: changed to:	2.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	glycidaldehyde	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	4.6E-01	μg/m3	
changed to:	4.6E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter Parame
Change 4/13/2011	furium	Soil Mother	d C, Carcinogen, Standard Formula Value, Direct
- /13/4011	Turium		estion only), industrial land use

changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	furium	Soil, Method B, Carcinogen, Standard Formula Value, Direct	
		Contact (ing	gestion only), unrestricted land use
	Changes Made		Comments
previous value:	2.E-02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	furium	Oral Canco	r Potonov Factor (CPFa)
4/13/2011	Turium	Oral Cancel	r Potency Factor (CPFo)
	Changes Made		Comments
previous value:	5.E+01	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change	Chemical		ratametei
4/13/2011	furfural	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.5E+01	μg/m3	Comments
value:			Charges to CLARC placerum levels based on undetected
changed to:	5.E+01	µg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Data of	Ohamiaal	Γ	Devenueter
Date of Change	Chemical		Parameter
4/13/2011	furfural	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.6E+01	μg/m3	Comments
value:		1 5,	
	2.25 . 04	, ,	Observation OLABO also as a last described as a last and a last and a last a la
changed to:	2.3E+01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		μg/m3	
Date of	2.3E+01 Chemical	μg/m3	
			toxicity values (December 2010) Parameter
Date of Change	Chemical furfural		Parameter Leference Dose (RfDi)
Date of Change 4/13/2011	Chemical furfural Changes Made	Inhalation R	toxicity values (December 2010) Parameter
Date of Change	Chemical furfural		Parameter Leference Dose (RfDi)
Date of Change 4/13/2011 previous	Chemical furfural Changes Made	Inhalation R	Parameter deference Dose (RfDi)
Date of Change 4/13/2011 previous value:	Chemical furfural Changes Made 1.E-02	Inhalation R	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA
Date of Change 4/13/2011 previous value: changed to:	Chemical furfural Changes Made 1.E-02	Inhalation R	Parameter Peference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical furfural Changes Made 1.E-02 1.4E-02 Chemical	Inhalation R mg/kg-day mg/kg-day	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to:	Chemical furfural Changes Made 1.E-02 1.4E-02	Inhalation R mg/kg-day mg/kg-day	Parameter Leference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical furfural Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made	Inhalation R mg/kg-day mg/kg-day	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical furfural Changes Made 1.E-02 1.4E-02 Chemical formic acid	Inhalation R mg/kg-day mg/kg-day	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Ceference Dose (RfDi)
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical furfural Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made	Inhalation R mg/kg-day mg/kg-day	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Ceference Dose (RfDi)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Chemical Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made Researched-No Data	Inhalation R mg/kg-day mg/kg-day Inhalation R	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made Researched-No Data	Inhalation R mg/kg-day mg/kg-day Inhalation R	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change Date of Change to:	Chemical Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made Researched-No Data 8.6E-04 Chemical	Inhalation R mg/kg-day mg/kg-day Inhalation R mg/kg-day	Parameter Deference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Deference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Deference Dose (RfDi) Parameter Parameter Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made Researched-No Data 8.6E-04	Inhalation R mg/kg-day mg/kg-day Inhalation R mg/kg-day	Parameter Reference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Reference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made Researched-No Data 8.6E-04 Chemical formaldehyde Changes Made	Inhalation R mg/kg-day mg/kg-day Inhalation R mg/kg-day	Parameter Deference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Deference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Deference Dose (RfDi) Parameter Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 1.E-02 1.4E-02 Chemical formic acid Changes Made Researched-No Data 8.6E-04 Chemical formaldehyde	Inhalation R mg/kg-day mg/kg-day Inhalation R mg/kg-day	Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter Ceference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Carcinogen, Standard Formula Value

Date of Change	Chemical		Parameter
4/13/2011	formaldehyde	Air, Method	B, Carcinogen, Standard Formula Value
previous value:	Changes Made 1.9E-01	μg/m3	Comments
changed to:	1.9E-01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
1/13/2011	formaldehyde		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
previous	Changes Made 5.3E+05	mg/kg	Comments
value: changed to:	7.E+05	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Date of Change	Chemical		rai ailletei
1/13/2011	formaldehyde		d B, Non-carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use
	Changes Made		Comments
orevious value:	1.2E+04	mg/kg	
changed to:	1.6E+04	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
1/13/2011	formaldehyde	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	2.6E+03	μg/L	Comments
value: changed to:	3.5E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			. ,
Date of	Chemical		Parameter
Change 4/13/2011	formaldehyde	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
	Change Mad		Cammanta
orevious value:	Changes Made 1.2E+03	μg/L	Comments
changed to:	1.6E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of			Percent
Date of Change	Chemical		Parameter
1/13/2011	formaldehyde	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
changed to:	2.E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 1/13/2011	formaldehyde	Inhalation C	Sancer Potency Factor (CPFi)
			Comments
changed to:	Changes Made 4.6E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	fluoride		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
orevious	2.1E+05	mg/kg	

changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	fluoride		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	4.8E+03	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	fluoride	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	fluorid -	0	ton Mothed D. New constitution Co. 1 1 1 7
4/13/2011	fluoride	Ground War Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	fluoride	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	Changes Made 6.E-02	mg/kg-day	Comments
value: changed to:	No Data. What are my options?	3, 3 ,	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
			updated from 0 to 3 off May 11 2011 3.33FM
Date of	Chemical		Parameter
Change 4/13/2011	fensulfothion		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	8.8E+02	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	fensulfothion		d B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), unrestricted land use
nrovice:	Changes Made		Comments
previous value:	2.E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	fensulfothion		ter, Method C, Non-carcinogen, Standard Formula
		Value	
	Channa Made		Cammanta
previous	Changes Made 8.8E+00	μg/L	Comments

Date of	Chemical		Parameter
Change	form If all the	0 134/-4	Matter I D. Nicolandia and Complete I Francisco
4/13/2011	fensulfothion	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	4.E+00	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	fensulfothion	Oral Potoro	nce Dose (RfDo)
4/13/2011	Terisullottilott	Olai Releiel	ince Dose (RIDO)
	Changes Made		Comments
previous value:	2.5E-04	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change			
4/13/2011	ethylene thiourea		d C, Carcinogen, Standard Formula Value, Direct pestion only), industrial land use
	Changes Made		Comments
previous value:	1.2E+03	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	atherina a this cons	0.11 Matter 10.00 minutes 20 minutes 15 minutes 20 minut	
4/13/2011	ethylene thiourea		d B, Carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use
	Changes Made		Comments
previous	9.1E+00	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Cnange		Oral Canaar	Data a Factor (ODFs)
	ethylene thiourea	Oral Cancer	Potency Factor (CPFo)
	ethylene thiourea Changes Made	Ofai Cancer	Comments
4/13/2011 previous		kg-day/mg	
4/13/2011 previous value:	Changes Made		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from
previous value: changed to:	Changes Made		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_
previous value: changed to: Date of Change	Changes Made 1.1E-01 No Data. What are my options? Chemical	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter
previous value: changed to: Date of Change	Changes Made 1.1E-01 No Data. What are my options?	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM
previous value: changed to: Date of Change 4/13/2011	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made	kg-day/mg Air, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter
previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide	kg-day/mg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/13/2011 previous value: change	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made	kg-day/mg Air, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments
previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made 2.5E-01 Researched-No Data	kg-day/mg Air, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made 2.5E-01	kg-day/mg Air, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change do:	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made 2.5E-01 Researched-No Data	kg-day/mg Air, Method μg/m3	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change to:	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made 2.5E-01 Researched-No Data Chemical ethylene oxide	kg-day/mg Air, Method μg/m3	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 1.1E-01 No Data. What are my options? Chemical ethylene oxide Changes Made 2.5E-01 Researched-No Data Chemical	kg-day/mg Air, Method μg/m3	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter

Date of	Chemical		Parameter
Change 4/13/2011	ethylene oxide	Soil, Method	d C, Carcinogen, Standard Formula Value, Direct
	,		estion only), industrial land use
	Changes Made		Comments
previous	1.3E+02	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
	researched the Butta		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	athylana avida	Cail Matha	d D. Coveine con Chanderd Formula Value Direct
4/13/2011	ethylene oxide		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
previous	9.8E-01	mg/kg	Comments
value: changed to:	Researched-No Data	3, 3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
		I	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	ethylene oxide	Ground Mar	ter, Method C, Carcinogen, Standard Formula Value
4 /13/2011	ethylene oxide	Giouria wai	ter, method C, Carchiogen, Standard Formula value
	Changes Made	1	Comments
previous value:	4.3E-01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	ethylene oxide	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
4/10/2011	Citryleric Oxide	Oloulla Wal	tor, Metriod B, Gareinogen, Otandard Formula Value
provious	Changes Made	/1	Comments
previous value:	4.3E-02	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	ethylene oxide	Oral Cancer	Potency Factor (CPFo)
previous	Changes Made 1.E+00	kg-day/mg	Comments
value:			Undated CLARC toxisity values from IRIC or NCCA
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc
			is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
			updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	ethylene oxide	Inhalation C	ancer Potency Factor (CPFi)
<u> </u>	Change Mad		Com
previous	Changes Made 3.5E-01	kg-day/mg	Comments
value:		ng duy/ing	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from
			MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
	Chemical		
Date of Change	Chemical ethylene glycol monobutyl	Air Mathod	updated from 0 to 3 on May 11 2011 3:53PM

	Chang	es Made	Comments
previous value:	1.3E+04	μg/m3	
changed to:	1.6E+03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

4/13/2011

ethylene glycol monobutyl ether (EGBE)

Air, Method C, Non-carcinogen, Standard Formula Value

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	5.9E+03	μg/m3	
changed to:	7.3E+02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	1.8E+06	mg/kg	
changed to:	3.5E+05	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	4.E+04	mg/kg	
changed to:	8.E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	8.8E+03	μg/L	
changed to:	1.8E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	4.E+03	μg/L	
changed to:	8.E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Oral Reference Dose (RfDo)

	Change	s Made	Comments
previous value:	5.E-01	mg/kg-day	
changed to:	1.E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	ethylene glycol monobutyl ether (EGBE)	Inhalation Reference Dose (RfDi)

	Changes Made		Comments
previous value:	3.7E+00	mg/kg-day	
changed to:	4.6E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	ethylene dibromide (EDB)	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.1E-01	μg/m3	
changed to:	4.2E-02	µg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	ethylene dibromide (EDB)	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	3.5E-01	μg/m3	
changed to:	9.E+00	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change		A. Marthar I	
4/13/2011	ethylene dibromide (EDB)	Air, Method	B, Carcinogen, Standard Formula Value
previous	Changes Made	μg/m3	Comments
value: changed to:	4.2E-03	μg/m3	Changes to CLARC cleanup levels based on updated
	11.22 03	ддунгэ	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	ethylene dibromide (EDB)	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made	I	Comments
previous value:	1.6E-01	μg/m3	
	4.1E+00	μg/m3	toxicity values (December 2010)
changed to: Date of	4.1E+00 Chemical	μg/m3	
Changed to: Date of Change			toxicity values (December 2010)
Changed to: Date of Change	Chemical		toxicity values (December 2010) Parameter
Date of Change 4/13/2011	Chemical ethylene dibromide (EDB)		Parameter eference Dose (RfDi)
Date of Change 4/13/2011 previous value: changed to:	Chemical ethylene dibromide (EDB) Changes Made	Inhalation R	Parameter eference Dose (RfDi)
Date of Change 4/13/2011 previous value: changed to:	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03	Inhalation R	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 previous value: changed to:	Chemical ethylene dibromide (EDB) Changes Made 1.E-04	Inhalation R	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03	Inhalation R mg/kg-day mg/kg-day	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03 Chemical ethylene dibromide (EDB) Changes Made	Inhalation R mg/kg-day mg/kg-day Inhalation C	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03 Chemical ethylene dibromide (EDB)	Inhalation R mg/kg-day mg/kg-day	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ancer Potency Factor (CPFi)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03 Chemical ethylene dibromide (EDB) Changes Made	Inhalation R mg/kg-day mg/kg-day Inhalation C	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ancer Potency Factor (CPFi)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03 Chemical ethylene dibromide (EDB) Changes Made 7.7E-01	Inhalation R mg/kg-day mg/kg-day Inhalation C	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA
Date of Change 4/13/2011 Previous value: change 4/13/2011 Date of Change 4/13/2011 Previous value: change 4/13/2011	Chemical ethylene dibromide (EDB) Changes Made 1.E-04 2.6E-03 Chemical ethylene dibromide (EDB) Changes Made 7.7E-01 2.1E+00	Inhalation R mg/kg-day mg/kg-day Inhalation C kg-day/mg kg-day/mg	Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ancer Potency Factor (CPFi) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)

previous value:	7.E+04	mg/kg		
changed to:	3.2E+05	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	ethylene diamine		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use	
	Changes Made	Toomas (ing	Comments	
previous	Changes Made 1.6E+03	mg/kg	Comments	
value: changed to:	7.2E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	ethylene diamine	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula	
	Changes Made		Comments	
previous	3.5E+02	μg/L		
value: changed to:	1.6E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	ethylene diamine	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula	
		Value		
previous value:	Changes Made 1.6E+02	μg/L	Comments	
changed to:	7.2E+02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
			,,	
Date of	Chemical		Parameter	
Change 4/13/2011	ethylene diamine	Oral Refere	nce Dose (RfDo)	
previous	Changes Made 2.E-02	mg/kg-day	Comments	
value:	-		Lindated OLABO toxisit washing from IDIO on NOTA	
changed to:	9.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	ethylene cyanohydrin		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use	
	Changes Made		Comments	
previous			Comments	
•	1.1E+06	mg/kg	Comments	
value:		mg/kg mg/kg		
value: changed to:	1.1E+06 1.1E+05		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
value: changed to:	1.1E+06		Changes to CLARC cleanup levels based on update	
value: changed to: Date of Change	1.1E+06 1.1E+05	mg/kg Soil, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
value: changed to: Date of Change	1.1E+06 1.1E+05 Chemical	mg/kg Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-carcinogen, Standard Formula Value, Direct	
value: changed to: Date of Change 4/13/2011 previous	1.1E+06 1.1E+05 Chemical ethylene cyanohydrin	mg/kg Soil, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use	
value: changed to: Date of Change 4/13/2011 previous value:	1.1E+06 1.1E+05 Chemical ethylene cyanohydrin Changes Made	mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments	
value: changed to: Date of Change 4/13/2011 previous	1.1E+06 1.1E+05 Chemical ethylene cyanohydrin Changes Made 2.4E+04	mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B. Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on update	
value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of	1.1E+06 1.1E+05 Chemical ethylene cyanohydrin Changes Made 2.4E+04	mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B. Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on update	
value: changed to: Date of Change 4/13/2011 previous value: changed to:	1.1E+06 1.1E+05 Chemical ethylene cyanohydrin Changes Made 2.4E+04 2.4E+03	mg/kg Soil, Method Contact (ing mg/kg mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical ethylene cyanohydrin Changes Made 2.4E+04 2.4E+03 Chemical ethylene cyanohydrin	mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ter, Method C, Non-carcinogen, Standard Formula	
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	1.1E+06 1.1E+05 Chemical ethylene cyanohydrin Changes Made 2.4E+04 2.4E+03 Chemical	mg/kg Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter	

μg/L

Changes to CLARC cleanup levels based on updated

value:

changed to:

5.3E+02

		toxicity values (December 2010)			
Date of	Chemical		Parameter		
Change 1/13/2011	ethylene cyanohydrin	Ground Wat	er, Method B, Non-carcinogen, Standard Formula		
	Changes Made		Comments		
orevious value:	2.4E+03	μg/L			
changed to:	2.4E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of Change	Chemical		Parameter		
1/13/2011	ethylene cyanohydrin	Oral Refere	nce Dose (RfDo)		
	Changes Made	Changes Made Comments			
orevious value:	3.E-01	mg/kg-day			
changed to:	3.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
Date of Change	Chemical		Parameter		
1/13/2011	ethyl chloride	Air, Method	C, Carcinogen, Standard Formula Value		
	Changes Made		Comments		
previous	3.E+01	μg/m3			
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
ate of	Chemical		Parameter		
hange /13/2011	ethyl chloride	Air, Method	B, Carcinogen, Standard Formula Value		
		,	Comments		
revious	Changes Made 3.E+00	μg/m3	Comments		
alue: hanged to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Data of	Ohamiaal		Danamatan		
Date of Change 1/13/2011	Chemical ethyl chloride	Soil Method	Parameter I C, Carcinogen, Standard Formula Value, Direct		
1713/2011	etryr chloride		estion only), industrial land use		
	Changes Made		Comments		
revious ralue:	4.5E+04	mg/kg			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of	Chemical		Parameter		
Change					
/13/2011	ethyl chloride		d C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use		
	Changes Made		Comments		
previous	1.4E+06	mg/kg	- Commonto		
alue: hanged to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of	Chemical		Parameter		
Change					
/13/2011	ethyl chloride		B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use		
	Changes Made		Comments		
	Julianges made				
orevious value:	3.5E+02	mg/kg			

Date of Change	Chemical		Parameter
4/13/2011	ethyl chloride		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	3.2E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	ethyl chloride	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.5E+02	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		Farameter
4/13/2011	ethyl chloride	Ground War Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	7.E+03	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical	Parameter	
Change		0 114	
4/13/2011	ethyl chloride	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	1.5E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	ethyl chloride		ter, Method B, Non-carcinogen, Standard Formula
		Value	
	Changes Made		Comments
previous value:	3.2E+03	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	ethyl chloride	Oral Refere	nce Dose (RfDo)
	Ob 35 1		
orevious	Changes Made 4.E-01	mg/kg-day	Comments
value: changed to:	No Data. What are my options?	mg/kg day	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance
			is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change	-d-1-11-21-	Labadada . D	D. (D(D))
4/13/2011	ethyl chloride	innalation R	Reference Dose (RfDi)
	Changes Made		Comments
orevious value:	2.9E+00	mg/kg-day	
changed to:	2.9E+00	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Data of	Observiced		Danasasasas
Date of Change	Chemical		Parameter
4/13/2011	ethyl chloride	Oral Cancer Potency Factor (CPFo)	

ethyl chloride

	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	ethyl chloride	Inhalation C	Cancer Potency Factor (CPFi)
7.10/2011			
changed to:	Changes Made No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	ethion	Air Method	C, Non-carcinogen, Standard Formula Value
4/10/2011		7 til, Wictiou	
previous	Changes Made 2.E+02	μg/m3	Comments
value:	Researched-No Data	, ica	Changes to CLARC cleanup levels based on updat
changed to:	Researched-No Data		toxicity values (December 2010)
Date of	Chemical		Doromoto -
Date of Change	Chemical		Parameter
4/13/2011	ethion	Air, Method	B, Non-Carcinogen, Standard Formula Value
previous value:	Changes Made 9.1E+01	μg/m3	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	ethion	Inhalation R	Reference Dose (RfDi)
	Changes Made		Comments
previous value: changed to:	5.7E-02 No Data. What are my options?	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_
			updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	epichlorohydrin	Air, Method	B, Non-Carcinogen, Standard Formula Value
providence	Changes Made		Comments
previous value:	4.6E-01	μg/m3	
changed to:	4.6E-01	μg/m3	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Data	Ol mutual	T	Parameter
Date of Change 4/13/2011	Chemical epichlorohydrin	Soil Method	Parameter d C, Non-carcinogen, Standard Fomula Value, Direct
			gestion only), industrial land use
	Changes Made		Comments
previous value:	7.E+03	mg/kg	
changed to:	2.1E+04	mg/kg	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change			

Changes Made	Comments	
epichlorohydrin	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use	

4/13/2011

previous	1.6E+02	mg/kg	
value: changed to:	4.8E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	epichlorohydrin	Ground Wat	ter, Method C, Non-carcinogen, Standard Formula
		Value	<u> </u>
previous value:	Changes Made 3.5E+01	μg/L	Comments
changed to:	1.1E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	epichlorohydrin		ter, Method B, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 1.6E+01	μg/L	Comments
value: changed to:	4.8E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	epichlorohydrin	Oral Refere	nce Dose (RfDo)
previous	Changes Made 2.E-03	mg/kg-day	Comments
value: changed to:	6.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011	Chemical direct brown 95	Soil Mothod	Parameter C. Carcinogon, Standard Formula Value, Direct
4/13/2011	direct brown 95	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use	
previous	Changes Made	mg/kg	Comments
value: changed to:	Researched-No Data	J. J	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	direct brown 95	Soil Mothor	d B, Carcinogen, Standard Formula Value, Direct
4/13/2011	direct brown 95		gestion only), unrestricted land use
provious	Changes Made		Comments
value:	1.1E-01	mg/kg	Changes to CLARC cleanup levels based on updated
changed to:	Researched-No Data		toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	direct brown 95	Oral Cancer	r Potency Factor (CPFo)
previous	Changes Made 9.3E+00	kg-day/mg	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	direct blue 6	Soil Method	d C, Carcinogen, Standard Formula Value, Direct
-1 /13/2UTT	uned blue o		gestion only), industrial land use

mg/kg

1.6E+01

previous

value:			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	direct blue 6		d B, Carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), unrestricted land use
	Changes Made		Comments
previous	1.2E-01	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
onangou to.	Researched No Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	direct blue 6	Oral Cance	r Potency Factor (CPFo)
4/10/2011	direct blue o	Oral Carloc	Tracing Factor (CFF a)
	Changes Made		Comments
previous value:	8.1E+00	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
			(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from
			MTCA information hierarchy (April 2011) and note_cd
			updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	direct black 38	Soil Mothor	d C. Carainagan, Standard Farmula Value, Direct
4/13/2011	direct black 36		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	0. 14		
previous	Changes Made	mg/kg	Comments
value:		ilig/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxiony values (December 2010)
Date of	Chemical		Parameter
Change	Officialical		raniotor
4/13/2011	direct black 38		d B, Carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), unrestricted land use
	Changes Made		Comments
previous value:	1.2E-01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	direct black 38	Oral Cance	r Potency Factor (CPFo)
			, ,
provious	Changes Made	ا ام عرا	Comments
previous value:	8.6E+00	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
			(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from
			MTCA information hierarchy (April 2011) and note_cd
			updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	dioxane;1,4-	Soil Mother	d C, Carcinogen, Standard Formula Value, Direct
1 /13/2011	uiuxai 16, i ,4-		gestion only), industrial land use
	Changes Made		Comments
previous	Changes Made 1.2E+04	mg/kg	Comments
value:	-		
changed to:	1.3E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		<u> </u>	13.13.17 14.1430 (2000/11001 2010)
Dett			
Date of Change	Chemical		Parameter
4/13/2011	dioxane:1.4-	Soil. Method B. Carcinogen. Standard Formula Value. Direct	

Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

dioxane;1,4-

4/13/2011

	Changes Made		Comments	
previous	9.1E+01	mg/kg		
value: changed to:	1.E+01	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	dioxane;1,4-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value	
1710/2011		Orodina vva		
previous	Changes Made 4.E+01	μg/L	Comments	
value: changed to:	4.4E+00	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	dioxane;1,4-	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
previous	4.E+00	μg/L	Comments	
value: changed to:	4.4E-01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	dioxane;1,4-	Oral Refere	nce Dose (RfDo)	
	Changes Made		Comments	
previous value:	Researched-No Data			
changed to:	3.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	dioxane;1,4-	Oral Cance	r Potency Factor (CPFo)	
	Changes Made		Comments	
previous	1.1E-02	kg-day/mg	Commonte	
value: changed to:	1.E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	di-n-octyl phthalate	Soil, Method	d C, Non-carcinogen, Standard Fomula Value, Direct	
	, ,		gestion only), industrial land use	
	Changes Made		Comments	
previous value:	7.E+04	mg/kg		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	di-n-octyl phthalate		oil, Method B, Non-carcinogen, Standard Formula Value, Direct ontact (ingestion only), unrestricted land use	
	Changes Made		Comments	
previous value:	1.6E+03	mg/kg		
	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
changed to:	Chemical		Parameter	
Changed to: Date of Change		Cround W.		
changed to:	di-n-octyl phthalate	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula	
Date of Change 4/13/2011	di-n-octyl phthalate Changes Made	Value		
Changed to: Date of Change	di-n-octyl phthalate		ter, Method C, Non-carcinogen, Standard Formula	

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of	Chemical		Parameter		
Change 4/13/2011	di-n-octyl phthalate	Ground Water, Method B, Non-carcinogen, Standard Formula			
		Value			
	Changes Made		Comments		
previous value:	3.2E+02	μg/L			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)		
Date of	Chemical		Parameter		
Change 4/13/2011	di-n-octyl phthalate	Oral Refere	nce Dose (RfDo)		
., ,					
previous	Changes Made 2.E-02	mg/kg-day	Comments		
value:		mg/kg day	Lindated CLADC to visit welves from IDIC on NOTA		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM		
Date of	Chemical		Parameter		
Change 4/13/2011	dinitrotoluene;2,6-	Air, Method	C, Non-carcinogen, Standard Formula Value		
	Changes Made		Comments		
previous	3.5E+00	μg/m3	Comments		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update		
			toxicity values (December 2010)		
Date of	Chemical		Parameter		
Change 4/13/2011	dinitrotoluene;2,6-	Air, Method	B, Non-Carcinogen, Standard Formula Value		
		1			
previous	Changes Made 1.6E+00	μg/m3	Comments		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update		
			toxicity values (December 2010)		
Date of	Chemical		Parameter		
Change	dinitratal canaco C	Inholation D	oference Dece (DfDi)		
4/13/2011	dinitrotoluene;2,6-	Inhalation R	eference Dose (RfDi)		
	Changes Made		Comments		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM		
Date of	Chemical		Parameter		
Change					
4/13/2011	dinitrotoluene;2,4-	Air, Method	C, Non-carcinogen, Standard Formula Value		
	Changes Made		Comments		
previous value:	7.E+00	μg/m3			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)		
Date of	Chemical		Parameter		
Change					
4/13/2011	dinitrotoluene;2,4-	Air, Method	B, Non-Carcinogen, Standard Formula Value		
provious	Changes Made	ua/m2	Comments		
previous value:	3.2E+00	μg/m3			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)		
Date of	Chemical		Parameter		

	dinitrotoluene;2,4-	Inhalation Reference Dose (RfDi)		
	Changes Made		Comments	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM	
Date of	Chemical		Parameter	
Change 4/13/2011	dinitrotoluene mixture;2,4-/2,6-	Air, Metho	d C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
previous value:	1.3E-01	μg/m3		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	dinitrotoluene mixture;2,4-/2,6-	Air, Metho	d B, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
previous value:	1.3E-02	μg/m3		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	dinitrotoluene mixture;2,4-/2,6-	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use		
	Changes Made		Comments	
previous	1.9E+02	mg/kg	Gommento	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated	
changed to.	Researcheu-ino Data		toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	dinitrotoluene mixture;2,4-/2,6-	Soil, Method B, Carcinogen, Standard Formula Value, Director Contact (ingestion only), unrestricted land use		
	Changes Made		Comments	
previous	1.5E+00	mg/kg	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	dinitrotoluene mixture;2,4-/2,6-	Ground W	ater, Method C, Carcinogen, Standard Formula Value	
Change		Ground W		
Change 4/13/2011	Changes Made 1.3E+00	Ground W	ater, Method C, Carcinogen, Standard Formula Value Comments	
Change 4/13/2011 previous value:	Changes Made		Comments	
Change 4/13/2011 previous value: changed to:	Changes Made 1.3E+00 Researched-No Data		Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Change 4/13/2011 previous value: changed to: Date of	Changes Made 1.3E+00		Comments Changes to CLARC cleanup levels based on updated	
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.3E+00 Researched-No Data	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.3E+00 Researched-No Data Chemical	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.3E+00 Researched-No Data Chemical dinitrotoluene mixture;2,4-/2,6-	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.3E+00 Researched-No Data Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made	μg/L Ground W	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 1.3E+00 Researched-No Data Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 1.3E-01	μg/L Ground W	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated	

	dinitrotoluene mixture;2,4-/2,6-	Jul Garicei	Potency Factor (CPFo)
	Changes Made		Comments
revious	6.8E-01	kg-day/mg	
ralue: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of Change	Chemical		Parameter
4/13/2011	dinitrotoluene mixture;2,4-/2,6-	Inhalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:54PM
Date of	Chemical		Parameter
Change 4/13/2011	dinitrohenzonora	Soil Mother	I C, Non-carcinogen, Standard Fomula Value, Direct
+/13/2011	dinitrobenzene;p-		estion only), industrial land use
	Changes Made		Comments
orevious value:	1.4E+03	mg/kg	
changed to:	3.5E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 1/13/2011	dinitrobenzene;p-		I B, Non-carcinogen, Standard Formula Value, Direct
	Olamas Wala	Contact (ing	estion only), unrestricted land use
orevious	Changes Made 3.2E+01	mg/kg	Comments
value: changed to:	8.E+00	mg/kg	Changes to CLARC cleanup levels based on updated
	0.2100	mg/kg	toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
1/13/2011	dinitrobenzene;p-	Ground Wat Value	er, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious	1.4E+01	μg/L	
value: changed to:	3.5E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
	Chemical		Parameter
Date of Change			
Date of Change	Chemical dinitrobenzene;p-	Ground Wat	er, Method B, Non-carcinogen, Standard Formula
Date of Change 4/13/2011	dinitrobenzene;p-	Value	
Date of Change 4/13/2011 previous value:	Changes Made 6.4E+00	Value μg/L	er, Method B, Non-carcinogen, Standard Formula Comments
Date of Change 4/13/2011 previous value: changed to:	dinitrobenzene;p-	Value	er, Method B, Non-carcinogen, Standard Formula
Date of Change 4/13/2011 previous value: changed to:	Changes Made 6.4E+00	Value μg/L	er, Method B, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 Orevious value: changed to:	Changes Made 6.4E+00 1.6E+00	Value μg/L μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Drevious value: Changed to: Date of Change	Changes Made 6.4E+00 1.6E+00 Chemical dinitrobenzene;p-	Value μg/L μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo)
Date of Change 4/13/2011 Drevious value: Changed to: Date of Change	Changes Made 6.4E+00 1.6E+00 Chemical	Value μg/L μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter

Date of	Chemical		Parameter		
Change	digitashagana	Soil Mathad C. Non corping on Standard Famula Value			
4/13/2011	dinitrobenzene;o-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use		
	Changes Made		Comments		
previous value:	1.4E+03	mg/kg			
changed to:	3.5E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of Change	Chemical		Parameter		
4/13/2011	dinitrobenzene;o-		Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use		
	Changes Made		Comments		
previous	3.2E+01	mg/kg			
value: changed to:	8.E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of Change	Chemical		Parameter		
4/13/2011	dinitrobenzene;o-	Value	ter, Method C, Non-carcinogen, Standard Formula		
	Changes Made		Comments		
previous value:	1.4E+01	μg/L			
changed to:	3.5E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of Change	Chemical	Parameter			
4/13/2011	dinitrobenzene;o-		Ground Water, Method B, Non-carcinogen, Standard Formula		
		Value			
previous	Changes Made 6.4E+00	μg/L	Comments		
value: changed to:	1.6E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
			toxion, values (2000miles 2010)		
Date of Change	Chemical		Parameter		
4/13/2011	dinitrobenzene;o-	Oral Refere	nce Dose (RfDo)		
	Changes Made		Comments		
previous value:	4.E-04	mg/kg-day			
changed to:	1.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)		
Date of Change	Chemical		Parameter		
4/13/2011	dimethylhydrazine;1,1-	Air, Method	C, Carcinogen, Standard Formula Value		
	Changes Made	1	Comments		
previous	2.5E-02	μg/m3	Comments		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of Change	Chemical		Parameter		
4/13/2011	dimethylhydrazine;1,1-	Air, Method	B, Carcinogen, Standard Formula Value		
	Changes Made		Comments		
previous	2.5E-03	μg/m3	Commonto		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)		
Date of Change	Chemical		Parameter		
Gilaliye					

4/13/2011 dimethylhydrazine;1,1-		Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use		
	Changes Made		Comments	
previous value:	5.E+01	mg/kg		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	dimethylhydrazine;1,1-	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use		
	Changes Made		Comments	
orevious	3.8E-01	mg/kg		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	dimethylhydrazine;1,1-	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value	
arovious	Changes Made	ug/I	Comments	
orevious value: changed to:	1.7E-01 Researched-No Data	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter Parameter	
Change 4/13/2011	dimethylhydrazine;1,1-	Ground Water, Method B, Carcinogen, Standard Formula Va		
	Changes Made		Comments	
orevious	1.7E-02	μg/L	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	dimethylhydrazine;1,1-	Oral Refere	nce Dose (RfDo)	
previous	Changes Made Researched-No Data		Comments	
value: changed to:	1.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA	
crianged to.	1.E-04	mg/kg-uay	(December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	dimethylhydrazine;1,1-	Inhalation Reference Dose (RfDi)		
	Changes Made		Comments	
orevious value:	Researched-No Data			
changed to:	5.7E-07	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 1/13/2011	dimethylhydrazine;1,1-	Oral Cancer	Potency Factor (CPFo)	
orevious value:	Changes Made 2.6E+00	kg-day/mg	Comments	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM	

Date of Change	Chemical		Parameter
4/13/2011	dimethylhydrazine;1,1-	Inhalation C	ancer Potency Factor (CPFi)
previous	Changes Made 3.5E+00	kg-day/mg	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	dimethylbenzidine;3,3'-	Soil, Method C, Carcinogen, Standard Formula Value, Direct	
	, , , , , , , , , , , , , , , , , , , ,		estion only), industrial land use
	Changes Made		Comments
previous	1.4E+01	mg/kg	
value: changed to:	1,2E+01	mg/kg	Changes to CLARC cleanup levels based on update
	112.01	y/ \\	toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Gilolliloui		- didiliotoi
4/13/2011	dimethylbenzidine;3,3'-	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use	
	Changes Made		Comments
previous	1.1E-01	mg/kg	
value: changed to:	9.1E-02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dimethylbenzidine;3,3'-	Ground Water, Method C, Carcinogen, Standard Formula Value	
	Changas Mada		Comments
previous value:	Changes Made 9.5E-02	μg/L	Comments
changed to:	8.E-02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dimethylbenzidine;3,3'-	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	9.5E-03	μg/L	
value: changed to:	8.E-03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			, ,
Date of	Chemical		Parameter
Change 4/13/2011	dimethylbenzidine;3,3'-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous	Changes Made 9.2E+00	kg-day/mg	Comments
value: changed to:	1.1E+01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dimethylaniline;N,N-	Soil Method	d C, Carcinogen, Standard Formula Value, Direct
.,	annoutylaniiilo,i 1,i 11		estion only), industrial land use
	Changes Made		Comments
previous	2.9E+03	ma/ka	

mg/kg

previous value:

changed to:

2.9E+03

Researched-No Data

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of	Chemical		Parameter	
Change				
4/13/2011	dimethylaniline;N,N-	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use		
	Changes Made		Comments	
previous value:	2.2E+01	mg/kg	Commone	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	dimethylaniline;N,N-	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
orevious	9.5E+00	μg/L		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Datas	Ol and a	I	Barrantan	
Date of Change	Chemical		Parameter	
4/13/2011	dimethylaniline;N,N-	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
orevious value:	9.5E-01	μg/L		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical	Parameter		
Change	Offernical		i didilietei	
4/13/2011	dimethylaniline;N,N-	Oral Cancer	Potency Factor (CPFo)	
	Changes Made		Comments	
orevious value:	4.6E-02	kg-day/mg		
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM	
Date of	Chemical		Dovemeter	
Date of	Cnemical		Parameter	
Change		Surface Water, Method C, Non-Carcinogen, Standard For Value		
	dimethyl phthalate		ter, Method C, Non-Carcinogen, Standard Formula	
4/13/2011	Changes Made		ter, Method C, Non-Carcinogen, Standard Formula Comments	
4/13/2011 previous				
d/13/2011 previous value:	Changes Made	Value	Comments	
orevious value: changed to:	Changes Made 1.8E+05 Researched-No Data	Value	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
orevious value: changed to:	Changes Made 1.8E+05	Value	Comments Changes to CLARC cleanup levels based on update	
previous value: changed to:	Changes Made 1.8E+05 Researched-No Data	Value μg/L	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
previous value: changed to:	Changes Made 1.8E+05 Researched-No Data Chemical	Value μg/L Surface Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter	
previous value: changed to: Date of Change 4/13/2011	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate	Value μg/L Surface Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula	
previous value: changed to: Date of Change 4/13/2011 Drevious value: change	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made	Value μg/L Surface Wa Value	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update	
previous value: changed to: Date of Change 4/13/2011 Drevious value: change	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made 7.2E+04	Value μg/L Surface Wa Value	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments	
previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made 7.2E+04	Value μg/L Surface Wa Value	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update	
Date of Change declarate changed to: Date of Change declarate change decl	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made 7.2E+04 Researched-No Data Chemical	Value μg/L Surface Wa Value μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter	
Date of Change declarate changed to: Date of Change declarate change decl	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made 7.2E+04 Researched-No Data	Value μg/L Surface Wa Value μg/L Soil, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change deliance changed to: Date of Change deliance changed to:	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made 7.2E+04 Researched-No Data Chemical	Value μg/L Surface Wa Value μg/L Soil, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct	
Change 4/13/2011 Derevious value: changed to: Date of Change 4/13/2011 Drevious value: changed to: Date of Change 4/13/2011	Changes Made 1.8E+05 Researched-No Data Chemical dimethyl phthalate Changes Made 7.2E+04 Researched-No Data Chemical dimethyl phthalate	Value μg/L Surface Wa Value μg/L Soil, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use	

Date of Change	Chemical		Parameter
4/13/2011	dimethyl phthalate		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	8.E+04	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dimethyl phthalate	Ground War Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	3.5E+04	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dimethyl phthalate	Ground War Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	1.6E+04	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Offernical		i arameter
4/13/2011	dimethyl phthalate	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious value:	1.E+00	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	diethylstilbesterol	Air Method	C, Carcinogen, Standard Formula Value
1, 10, 2011	diotry lotting district	7 , 111041104	e, caromogen, ctandara i emidia value
	Changes Made	/ 2	Comments
previous value:	1.8E-04	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	diethylstilbesterol	Air, Method	B, Carcinogen, Standard Formula Value
		,, WOUTOU	
orovio:	Changes Made		Comments
previous value:	1.8E-05	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	diethylstilbesterol		d C, Carcinogen, Standard Formula Value, Direct
	Changes Made	Contact (Ing	gestion only), industrial land use Comments
previous	2.8E-02	mg/kg	Comments
value: changed to:	Researched-No Data	J. J	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter

4/13/2011	diethylstilbesterol		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	2.1E-04	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical	Parameter	
4/13/2011	/13/2011 diethylstilbesterol		Potency Factor (CPFo)
	Changes Made		Comments
previous	4.7E+03	kg-day/mg	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	diethylstilbesterol	Inhalation C	Fancer Potency Factor (CPFi)
previous	Changes Made 4.9E+02	kg-day/mg	Comments
value: changed to:	No Data. What are my options?	ing day/ing	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical	O. T. Madle	Parameter
4/13/2011	diethylformamide	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use	
	Changes Made		Comments
previous	3.9E+04	mg/kg	
value: changed to:	3.5E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		I	toxiony values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	diethylformamide	Soil Method	d B, Non-carcinogen, Standard Formula Value, Direct
4/13/2011	dietrynormamide		gestion only), unrestricted land use
	Changes Made		Comments
previous	8.8E+02	mg/kg	
value: changed to:	8.E+01	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Onomical Control		- didiliotoi
4/13/2011	diethylformamide	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	1.1E-02	mg/kg-day	
value: changed to:	1.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of Change	Chemical		Parameter
4/13/2011	diethylene glycol monoethyl ether		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Ohanna	,	0
previous	Changes Made 7.E+06	mg/kg	Comments
value: changed to:	2.1E+05	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)

Date of Change	Chemical	Parameter		
4/13/2011	diethylene glycol monoethyl ether	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use		
		Commonto		
previous	Changes Made 1.6E+05	mg/kg	Comments	
value: changed to:	4.8E+03	mg/kg	Changes to CLARC cleanup levels based on updat	
		J. 5	toxicity values (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	diethylene glycol monoethyl ether	Ground Water, Method C, Non-carcinogen, Standard Formula Value		
orevious	Changes Made 3.5E+04	μg/L	Comments	
value: changed to:	1.1E+03	µg/L	Changes to CLARC cleanup levels based on updat	
			toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	diethylene glycol monoethyl ether	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula	
	Changes Made		Comments	
previous value:	1.6E+04	μg/L		
changed to:	4.8E+02	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	diethylene glycol monoethyl ether	Oral Reference Dose (RfDo)		
			_	
orevious	Changes Made 2.E+00	mg/kg-day	Comments	
value: changed to:	6.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	diethylene glycol monoethyl ether	Inhalation R	Reference Dose (RfDi)	
	Changes Made		Comments	
orevious value:	Researched-No Data			
changed to:	8.6E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	diethylene glycol monobutyl ether	Air, Method C, Non-carcinogen, Standard Formula Value		
	Changes Made	1	Comments	
orevious value:	2.E+01	μg/m3	Commonts	
changed to:	1.E-01	μg/m3	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	diethylene glycol monobutyl	Air, Method	B, Non-Carcinogen, Standard Formula Value	
	ether	,	<u> </u>	
	Changes Made 9.1E+00		Comments	
0 0 0 1 1 0 1 1 -	- U 1E-400	μg/m3		
previous value: changed to:	3.1L+00	μ9/1113	Changes to CLARC cleanup levels based on updat	

Date of	Chemical		Parameter	
Change	Officialical	i arameter		
4/13/2011	diethylene glycol monobutyl ether	Oral Refere	Oral Reference Dose (RfDo)	
provious	Changes Made		Comments	
previous value:	Researched-No Data			
changed to:	3.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of Change	Chemical	Parameter		
4/13/2011	diethylene glycol monobutyl ether	Inhalation R	eference Dose (RfDi)	
	Changes Made		Comments	
previous	5.7E-03	mg/kg-day		
value: changed to:	2.9E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA	
			(December 2010)	
Date of	Chemical		Parameter	
Change	Onomical		i didiliotoi	
4/13/2011	diethylene glycol		C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use	
	Changes Made		Comments	
previous	7.E+06	mg/kg	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
		I	toxiony variation (Documbul 2010)	
Date of	Chemical		Parameter	
Change	distantant alvest	Coil Mothor	I.D. Non-consinguous Chanderd Formula Value Direct	
4/13/2011	diethylene glycol	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use		
	Changes Made		Comments	
previous value:	1.6E+05	mg/kg		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
		T		
Date of Change	Chemical		Parameter	
4/13/2011	diethylene glycol	Ground Wat Value	er, Method C, Non-carcinogen, Standard Formula	
	Changes Made		Comments	
previous	7.E+04	μg/L		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated	
			toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	diethylene glycol	Ground Wat Value	er, Method B, Non-carcinogen, Standard Formula	
previous	Changes Made 3.2E+04	μg/L	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
		1	133) 1330 (3.00030)	
Date of	Chemical		Parameter	
Change 4/13/2011	diethylene glycol	Oral Refere	nce Dose (RfDo)	
7/10/2011	aloutylotte gryoot	<u> </u>	THE DOSC (MIDO)	
	Changes Made		Comments	
previous value:	2.E+00	mg/kg-day		
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd	

Date of Change	Chemical		Parameter
4/13/2011	dicyclopentadiene	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	2.1E-01	μg/m3	Comments
value:			
changed to:	7.E+00	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dicyclopentadiene	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	9.6E-02	μg/m3	
value: changed to:	3.2E+00	μg/m3	Changes to CLARC cleanup levels based on update
		1, 2,	toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Gileilileai		i aranietei
4/13/2011	dicyclopentadiene		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	A 1		
orevious	Changes Made	mg/kg	Comments
value:			
changed to:	2.8E+04	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dicyclopentadiene		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
		Contact (ing	
orevious	Changes Made 2.4E+03	mg/kg	Comments
value:			
changed to:	6.4E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dicyclopentadiene	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
., 10, 20 1 1	aleyerepermatiente	Value	
	Changes Made		Comments
orevious	5.3E+02	μg/L	2 2 3 3 3 3 4 3
value: changed to:	1.4E+02	μg/L	Changes to CLARC cleanup levels based on update
onangou to.	2.12.02	P9/ □	toxicity values (December 2010)
Date of	Oh amile al		Danamatan
Date of Change	Chemical		Parameter
4/13/2011	dicyclopentadiene	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious	Changes Made 2.4E+02	μg/L	Comments
value:			
changed to:	6.4E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dicyclopentadiene	Oral Refere	nce Dose (RfDo)
			00
previous	Changes Made 3.E-02	mg/kg-day	Comments
value:			
changed to:	8.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dicyclopentadiene	Inhalation R	Reference Dose (RfDi)
4/ 13/2011			

	Changes Made		Comments
previous value:	6.E-05	mg/kg-day	
changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change	Chemicai		Parameter
4/13/2011	dichlorvos	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	5.E-01	μg/m3	
changed to:	5.E-01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichlorvos		d C, Carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), industrial land use
previous	Changes Made 4.5E+02	mg/kg	Comments
value:			Changes to OLABO start at 1
changed to:	4.5E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		rai ailletei
4/13/2011	dichlorvos		d B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous value:	3.4E+00	mg/kg	
changed to:	3.5E+00	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichlorvos	Ground War	ter, Method C, Carcinogen, Standard Formula Value
4/10/2011	diofficivos	Ciodila vva	
previous	Changes Made 1.5E+00	μg/L	Comments
value:			
changed to:	1.5E+00	µg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dichlorvos	<u>'</u>	ter, Method B, Carcinogen, Standard Formula Value
previous	Changes Made 1.5E-01	μg/L	Comments
value: changed to:	1.5E-01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			,
Date of Change	Chemical		Parameter
4/13/2011	dichlorvos	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
	2.9E-01	kg-day/mg	
•	,	1	
value:	2.9E-01	kg-day/mg	(December 2010)
value: changed to:	2.9E-01	kg-day/mg	(December 2010)
value: changed to:		kg-day/mg	
value: changed to: Date of Change	2.9E-01		
previous value: changed to: Date of Change 4/13/2011 previous	2.9E-01 Chemical	Surface Wa	(December 2010) Parameter
alue: hanged to: Pate of Change /13/2011	Chemical dichloropropene;1,3- Changes Made	Surface Wa	Parameter ter, Method C, Carcinogen, Standard Formula Value

μg/L

changed to:

8.5E+02

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of	Chemical		Parameter
Change		0 ()	
4/13/2011	dichloropropene;1,3-	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.9E+01	μg/L	
changed to:	3.4E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dichloropropene;1,3-		d C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
	Changes Made		Comments
previous value:	7.3E+02	mg/kg	
changed to:	1.3E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichloropropene;1,3-	Soil, Method	B B, Carcinogen, Standard Formula Value, Direct
1,710,72011			estion only), unrestricted land use
	Changes Made		Comments
previous value:	5.6E+00	mg/kg	
changed to:	1.E+01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		_	
Date of Change	Chemical		Parameter
4/13/2011	dichloropropene;1,3-	Ground Wat	er, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	2.4E+00	μg/L	Comments
value: changed to:	4.4E+00	μg/L	Changes to CLARC cleanup levels based on updated
changed to.	4,41700	μ9/∟	toxicity values (December 2010)
Date of	Chemical		Parameter
Change		100	
4/13/2011	dichloropropene;1,3-	Ground wat	er, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	2.4E-01	μg/L	
changed to:	4.4E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichloroproposal 2	Oral Canaar	Potonov Foctor (CDFo)
4/13/2011	dichloropropene;1,3-	Oral Caricel	Potency Factor (CPFo)
	Changes Made	1	Comments
previous value:	1.8E-01	kg-day/mg	
changed to:	1.E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Date of Change			
Date of	Chemical dichloropropane;1,2-	Surface Wa	Parameter ter, Method C, Carcinogen, Standard Formula Value
Date of Change 4/13/2011	dichloropropane;1,2- Changes Made		
Date of Change 4/13/2011	dichloropropane;1,2-	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
Date of Change 4/13/2011	dichloropropane;1,2- Changes Made		ter, Method C, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value: changed to:	Changes Made 5.8E+02 Researched-No Data		Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to:	dichloropropane;1,2- Changes Made 5.8E+02		ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to:	Changes Made 5.8E+02 Researched-No Data	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

previous	2.3E+01	μg/L	
value:		F-97 -	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dichloropropane;1,2-		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use
previous	Changes Made 1.9E+03	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dichloropropane;1,2-		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
previous	1.5E+01	mg/kg	Comments
value: changed to:	Researched-No Data	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	P. I. I.		Mail 10 0 1 2 2 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4/13/2011	dichloropropane;1,2-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	6.4E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		i didilictei
4/13/2011	dichloropropane;1,2-	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	6.4E-01	μg/L	Comments
value: changed to:	0.12 01	M3/ =	Changes to CLARC cleanup levels based on updated
9	Researched-No Data		
	Researched-No Data		toxicity values (December 2010)
Date of	Researched-No Data Chemical		
Date of Change	Chemical		toxicity values (December 2010) Parameter
Date of Change		Oral Cancel	toxicity values (December 2010)
Date of Change 4/13/2011	Chemical		toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value:	Chemical dichloropropane;1,2- Changes Made 6.8E-02	Oral Cancel	Parameter Potency Factor (CPFo) Comments
Date of Change 4/13/2011 previous value:	Chemical dichloropropane;1,2- Changes Made		Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from
Date of Change 4/13/2011 previous value: changed to:	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options?		Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical	kg-day/mg	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options?	kg-day/mg	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made	kg-day/mg Air, Method	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made 7.E+01	kg-day/mg Air, Method μg/m3	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM Parameter C, Non-carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made	kg-day/mg Air, Method	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM Parameter C, Non-carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made 7.E+01	kg-day/mg Air, Method μg/m3	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made 7.E+01 6.E+01 Chemical	kg-day/mg Air, Method μg/m3 μg/m3	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cc updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made 7.E+01 6.E+01	kg-day/mg Air, Method μg/m3 μg/m3	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical dichloropropane;1,2- Changes Made 6.8E-02 No Data. What are my options? Chemical dichloroethylene;1,2-,trans Changes Made 7.E+01 6.E+01 Chemical	kg-day/mg Air, Method μg/m3 μg/m3	Parameter Potency Factor (CPFo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cc updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter

changed to:	2.7E+01	μg/m3	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
		I	
Date of Change	Chemical		Parameter
4/13/2011	dichloroethylene;1,2-,trans	Inhalation R	reference Dose (RfDi)
	Changes Made		Comments
changed to:	1.7E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichloroethylene;1,2-,cis	Air, Method	C, Non-carcinogen, Standard Formula Value
			_
•	Changes Made		Comments
previous value: changed to:	3.5E+01 Researched-No Data	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		raiaiiielei
4/13/2011	dichloroethylene;1,2-,cis	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.6E+01	μg/m3	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dichloroethylene;1,2-,cis		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	3.5E+04	mg/kg	
changed to:	7.E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichloroethylene;1,2-,cis		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	8.E+02	mg/kg	
changed to:	1.6E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichloroethylene;1,2-,cis	Ground Wat	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	1.8E+02	μg/L	
value: changed to:	3.5E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichloroethylene;1,2-,cis		ter, Method B, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 8.E+01	μg/L	Comments
value: changed to:	1.6E+01	μg/L	Changes to CLARC cleanup levels based on updated
		- IE-	toxicity values (December 2010)

Date of	Chemical		Parameter	
Change 4/13/2011	dichloroethylene;1,2-,cis	Oral Reference Dose (RfDo)		
	G. G	01011101010		
previous	Changes Made 1.E-02	mg/kg-day	Comments	
value: changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	dichloroethylene;1,2-,cis	Inhalation R	Reference Dose (RfDi)	
	Changes Made		Comments	
changed to:	Changes Made No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA	
			(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM	
Date of Change	Chemical		Parameter	
1/13/2011	dichloroethylene;1,1-	Air, Method	B, Non-Carcinogen, Standard Formula Value	
changed to:	Changes Made 9.1E+01	µg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
			B 4	
Date of Change	Chemical		Parameter	
1/13/2011	dichloroethylene;1,1-	Inhalation Reference Dose (RfDi)		
phongod to:	Changes Made	/lea day	Comments Updated CLARC toxicity values from IRIS or NCEA	
changed to:	5.7E-02	mg/kg-day	(December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	dichloroethane;1,2-	Air Method	C, Non-carcinogen, Standard Formula Value	
+/15/2011		All, Method		
orevious	Changes Made 4.9E+00	μg/m3	Comments	
value: changed to:	Researched-No Data	1 3,	Changes to CLARC cleanup levels based on update	
			toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	diable readh area (4.0	A: Mathad	D. Non Cousing you. Chandard Farmula Value	
4/13/2011	dichloroethane;1,2-	Air, Method	B, Non-Carcinogen, Standard Formula Value	
orevious	Changes Made 2.2E+00	μg/m3	Comments	
value: changed to:	Researched-No Data	μ9/1113	Changes to CLARC cleanup levels based on update	
		l	toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	dichloroethane;1,2-	Inhalation R	Reference Dose (RfDi)	
	Changes Made		Comments	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM	
Date of	Chemical		Parameter	
Change				
4/13/2011	dichloroethane;1,1-	Air, Method	C, Non-carcinogen, Standard Formula Value	
changed to:	Changes Made Researched-No Data		Comments Changes to CLARC cleanup levels based on update	

Date of Change	Chemical		Parameter
4/13/2011	dichloroethane;1,1-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dichloroethane;1,1-	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	dichlorodifluoromethane	Air. Method	C, Non-carcinogen, Standard Formula Value
	distribution	7, 111041104	- Cyrton baromogon, Ctandara i omida valuo
	Changes Made		Comments
previous value:	1.8E+02	μg/m3	
changed to:	2.E+02	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichlorodifluoromethane	Air, Method	B, Non-Carcinogen, Standard Formula Value
previous	Changes Made 8.E+01	μg/m3	Comments
value:			
changed to:	9.1E+01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			i diameter
4/13/2011	dichlorodifluoromethane	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
previous value:	5.E-02	mg/kg-day	
changed to:	5.7E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dichlorobenzene;1,4-	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
previous	Changes Made 1.2E+02	μg/L	Comments
value: changed to:	Researched-No Data	M3/ L	Changes to CLARC cleanup levels based on update
changed to.	Researched-NO Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichlorobenzene;1,4-	Surface Ma	ter, Method B, Carcinogen, Standard Formula Value
-/ IU/ZUII		Curiace vva	
previous	Changes Made 4.9E+00	μg/L	Comments
	Researched-No Data	F- 91 —	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			LUNIULY VALUES LUCUEIIIUEL ZUTUI
value: changed to:			
	Chemical		Parameter

	Changes Made		Comments
previous	5.5E+03	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dichlorobenzene;1,4-		B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	Changes Made 4.2E+01	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dichlorobenzene;1,4-	Ground Wat	er, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.8E+01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dichlorobenzene;1,4-	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
previous	Changes Made 1.8E+00	μg/L	Comments
value: changed to:	Researched-No Data	P9/ -	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dichlorobenzene;1,4-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous	2.4E-02	kg-day/mg	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	dichlorobenzene;1,2-	Air Mothad	C, Non-carcinogen, Standard Formula Value
1/10/2011	aloniologonzone, 1,2-	/ MI, IVIGUIOU	C, 11011 Garoinogon, Giandard i Official Value
	Changes Made		Comments
previous value:	1.4E+02	μg/m3	
changed to:	2.E+02	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
	dichlorobenzene;1,2-	Air, Method	B, Non-Carcinogen, Standard Formula Value
4/13/2011			Comments
4/13/2011	Changes Made	1	
	Changes Made 6.4E+01	μg/m3	
4/13/2011 previous	_	μg/m3 μg/m3	
4/13/2011 previous value:	6.4E+01		Changes to CLARC cleanup levels based on update
4/13/2011 previous value: changed to: Date of	6.4E+01		Changes to CLARC cleanup levels based on update
4/13/2011 previous value: changed to:	6.4E+01 9.1E+01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
4/13/2011 previous value: changed to: Date of Change	6.4E+01 9.1E+01 Chemical	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter

changed to:	5.7E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	dichloro-2-butene;1,4-	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	9.4E-03	μg/m3	
value: changed to:	6.E-03	ua/m²	Changes to CLARC cleanup levels based on updated
changed to.	0.L-03	μg/m3	toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Pallon Ola tana 4.4	A's Marth a l	P. Ossiliana and Grant Francis In Value
4/13/2011	dichloro-2-butene;1,4-	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	9.4E-04	μg/m3	
value: changed to:	6.E-04	μg/m3	Changes to CLARC cleanup levels based on updated
changed to.	0.12-04	μу/піз	toxicity values (December 2010)
Date of	Chemical		Parameter
Change	diables: 0 by 1 1	Int. 1 or -	Peters Peters (OPE)
4/13/2011	dichloro-2-butene;1,4-	Inhalation C	Cancer Potency Factor (CPFi)
	Changes Made		Comments
previous	9.3E+00	kg-day/mg	
value: changed to:	1.5E+01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
	1102 / 01	ng day/mg	(December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dibromo-3-chloropropane;1,2-	Air. Method	C, Carcinogen, Standard Formula Value
	a.a	7,	
	Changes Made		Comments
previous	3.6E+01	μg/m3	Comments
previous value: changed to:			
value:	3.6E+01	µg/m3 µg/m3	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to:	3.6E+01 4.2E-03		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to:	3.6E+01		Changes to CLARC cleanup levels based on updated
value:	3.6E+01 4.2E-03	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to: Date of Change	3.6E+01 4.2E-03 Chemical dibromo-3-chloropropane;1,2-	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
value: changed to: Date of Change 4/13/2011	3.6E+01 4.2E-03 Chemical dibromo-3-chloropropane;1,2-	μg/m3 Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change	3.6E+01 4.2E-03 Chemical dibromo-3-chloropropane;1,2-	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value:	3.6E+01 4.2E-03 Chemical dibromo-3-chloropropane;1,2-	μg/m3 Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value:	3.6E+01 4.2E-03 Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00	μg/m3 Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to:	3.6E+01 4.2E-03 Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00	μg/m3 Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical	μg/m3 Air, Method μg/m3 μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 3.6E+00 4.2E-04 Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2-	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C C, Carcinogen, Standard Formula Value, Direct
Date of Changed to: Previous value: changed to: Date of Change 4/13/2011 Date of Change 4/13/2011 Previous value: changed to:	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 3.6E+00 4.2E-04 Changes Made Chemical Chemical dibromo-3-chloropropane;1,2-	μg/m3 μg/m3 μg/m3 μg/m3 Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 Previous value: changed to: Date of Change 4/13/2011 Date of Change 4/13/2011 Previous value: changed to: Date of Change 4/13/2011	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 Date of Change to: Date of Change to:	Chemical Changes Made 3.6E+00 4.2E-04 Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01 1.6E+02 Chemical	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 Date of Change to: Date of Change to:	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01 1.6E+02	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing mg/kg mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Date of Change to: Date of Change to:	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01 1.6E+02 Chemical dibromo-3-chloropropane;1,2-	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing mg/kg mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Previous value: changed to: Date of Change 4/13/2011	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01 1.6E+02 Chemical dibromo-3-chloropropane;1,2-	μg/m3 μg/m3 μg/m3 μg/m3 μg/m3 Soil, Method Contact (ing mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value, Direct
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical dibromo-3-chloropropane;1,2- Changes Made 3.6E+00 4.2E-04 Chemical dibromo-3-chloropropane;1,2- Changes Made 9.4E+01 1.6E+02 Chemical dibromo-3-chloropropane;1,2-	μg/m3 Air, Method μg/m3 μg/m3 Soil, Method Contact (ing mg/kg mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use

Date of Change	Chemical		Parameter
4/13/2011	dibromo-3-chloropropane;1,2-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	3.1E-01	μg/L	
changed to:	5.5E-01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 1/13/2011	dibromo-3-chloropropane;1,2-	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.1E-02	μg/L	
value: changed to:	5.5E-02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dibromo-3-chloropropane;1,2-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious value:	Researched-No Data		
changed to:	2.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change	dibaaraa Qablaaraaraa aa aa Q	0	Determine Factor (ODFs)
1/13/2011	dibromo-3-chloropropane;1,2-	Oral Cance	r Potency Factor (CPFo)
	Changes Made		Comments
orevious ⁄alue:	1.4E+00	kg-day/mg	
changed to:	8.E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 1/13/2011	dibromo-3-chloropropane;1,2-	Inhalation C	Cancer Potency Factor (CPFi)
	Changes Made		Comments
previous	Changes Made 2.4E-03	kg-day/mg	Comments
value: changed to:	2.1E+01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
1/13/2011	dibenzofuran	Air, ivietnod	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	7.E+00	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change		Air Marth	
1/13/2011	dibenzofuran	Air, Method	B, Non-Carcinogen, Standard Formula Value
previous	Changes Made 3.2E+00	μg/m3	Comments
value: changed to:	Researched-No Data	-	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			-,
Date of	Chemical		Parameter

Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct

4/13/2011

dibenzofuran

		Contact (ing	estion only), industrial land use
	Changes Made		Comments
previous	7.E+03	mg/kg	
value: changed to:	3.5E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dibenzofuran		d B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use
	Changes Made		Comments
previous value:	1.6E+02	mg/kg	
changed to:	8.E+01	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dibenzofuran	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made	•	Comments
previous value:	7.E+01	μg/L	555
changed to:	3.5E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Det			
Date of Change	Chemical		Parameter
4/13/2011	dibenzofuran	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	3.2E+01	μg/L	
changed to:	1.6E+01	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	dibenzofuran	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
changed to:	1.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	dibenzo[a,h]anthracene	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous value:	7.3E+00	kg-day/mg	
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change		0. 11. 1.	
4/13/2011	diazinon		d C, Non-carcinogen, Standard Fomula Value, Direct jestion only), industrial land use
previous value:	Changes Made 3.2E+03	mg/kg	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
	Chemical		Parameter
Change			
	diazinon		d B, Non-carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
Change 4/13/2011	diazinon Changes Made		d B, Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use Comments

value:			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	diazinon	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
4/10/2011	didzirion	Value	tor, Method 6, Non Salomogen, Standard Formula
	Ohannaa Mada		0
previous	Changes Made 3.2E+01	μg/L	Comments
value:		μ9/ L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	diazinon	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
		Value	
	Changes Made		Comments
previous	1.4E+01	μg/L	Comments
value:		F-37 =	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
		<u> </u>	toxiony values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	diazinon	Oral Refere	nce Dose (RfDo)
.,		0.0	
	Changes Made		Comments
previous value:	9.E-04	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
· ·	, ,		(December 2010) comments_ds extended: Guidance
			is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd
			updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change	Chemical		Faranietei
4/13/2011	decabromodiphenyl	Air, Method	C, Carcinogen, Standard Formula Value
	ether;2,2',3,3',4,4',5,5',6,6'		
	Changes Made		Comments
	Changes Made 1.3E+02	μg/m3	Comments
value:	1.3E+02	μg/m3	
value:	_	μg/m3	
value:	1.3E+02	μg/m3	Changes to CLARC cleanup levels based on updated
value: changed to:	1.3E+02 Researched-No Data	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to:	1.3E+02	μg/m3	Changes to CLARC cleanup levels based on updated
value: changed to: Date of Change	1.3E+02 Researched-No Data Chemical decabromodiphenyl		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to: Date of Change	1.3E+02 Researched-No Data Chemical		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change	1.3E+02 Researched-No Data Chemical decabromodiphenyl		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change	1.3E+02 Researched-No Data Chemical decabromodiphenyl		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change 4/13/2011	1.3E+02 Researched-No Data Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value
value: changed to: Date of Change 4/13/2011 previous value:	1.3E+02 Researched-No Data Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 2.5E+01	Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value:	1.3E+02 Researched-No Data Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made	Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments
value: changed to: Date of Change 4/13/2011 previous value:	1.3E+02 Researched-No Data Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 2.5E+01	Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to:	Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 2.5E+01 Researched-No Data	Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to:	1.3E+02 Researched-No Data Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 2.5E+01	Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made Chemical Chemical Chemical	Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.5E+01 Researched-No Data	Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made Chemical Chemical Chemical	Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made Chemical Chemical Chemical	Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made Adecabromodiphenyl Changes Made Chemical Chemical Chemical	Air, Method μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made 2.5E+01 Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 1.3E+01	Air, Method μg/m3 Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments
Date of Change delay to: Date of Change delay to: Previous value: Change delay to: Date of Change delay to:	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made Chemical Chemical	Air, Method μg/m3 Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments
previous value: changed to: Date of Change 4/13/2011 Date of Change to: Date of Change to: Date of Change to:	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made 2.5E+01 Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 1.3E+01	Air, Method μg/m3 Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011	Chemical Changes Made 2.5E+01 Researched-No Data Changes Made 2.5E+01 Chemical decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6' Changes Made 1.3E+01	Air, Method μg/m3 Air, Method	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Comments Changes to CLARC cleanup levels based on updated

4/13/2011	decabromodiphenyl	Air ivietnod	B, Non-Carcinogen, Standard Formula Value
1, 10, 2011	ether;2,2',3,3',4,4',5,5',6,6'	7 til, Wotrod	2, Non Garomogon, Glandara i olimala valdo
	Changes Made		Comments
revious alue:	1.1E+00	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Pate of	Chemical		Parameter
Change			
J/13/2011	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use
	Changes Made		Comments
revious	1.9E+04	mg/kg	
value: changed to:	1.9E+05	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter Parame
Change 1/13/2011	ddd	Air Mathad	C Carcinogen Standard Formula Valua
113/2017	uuu	All, IVIETNOO	C, Carcinogen, Standard Formula Value
orevious value:	Changes Made 3.7E-01	μg/m3	Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical	Parameter	
Change 4/13/2011	ddd	Air, Method B, Carcinogen, Standard Formula Value	
1/13/2011	uuu	All, Method	B, Carcinogen, Standard Formula Value
revious	Changes Made 3.7E-02		Comments
alue:	3./E-UZ	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
1/13/2011	ddd	Innalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cc updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter Parameter
Change		Oral Did	
/13/2011	cyclohexane	Oral Ketere	nce Dose (RfDo)
revious	Changes Made 1.7E+00	mg/kg-day	Comments
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance
			is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Pate of	Chemical		Parameter
Change 1/13/2011	cyclohexane	Inhalation B	eference Dose (RfDi)
r/ 10/2011	Gydionexane	minalation R	CICIONE DOSE (INDI)
previous	Changes Made 1.7E+00	mg/kg-day	Comments
ralue: changed to:	1.7E+00	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter

4/13/2011	copper	Surface Wa Value	ter, Method C, Non-Carcinogen, Standard Formula
	Changes Made	•	Comments
previous	6.7E+03	μg/L	Comments
value: changed to:	7.2E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	copper	Surface Wa Value	ter, Method B, Non-Carcinogen, Standard Formula
	Changes Made	e	Comments
previous value:	2.7E+03	μg/L	
changed to:	2.9E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	copper		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	1.3E+05	mg/kg	- Communication
changed to:	1.4E+05	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	copper		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	3.E+03	mg/kg	Comments
value: changed to:	3.2E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	copper	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
previous	Changes Made 1.3E+03	e μg/L	Comments
value:	1.4E+03	μg/L	Changes to CLARC cleanup levels based on updated
		F-97 -	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	copper	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
1, 10, 2011	обрро.	Value	ion, mornou e, mornouro en origina de la comicia
		•	
	Changes Made	9	Comments
previous value:	Changes Made 5.9E+02	e μg/L	Comments
previous value: changed to:	-		
value: changed to:	5.9E+02	μg/L	Changes to CLARC cleanup levels based on updated
value: changed to:	5.9E+02 6.4E+02 Chemical	µg/L µg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change	5.9E+02 6.4E+02 Chemical copper	μg/L μg/L Oral Refere	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo)
value: changed to: Date of Change 4/13/2011	5.9E+02 6.4E+02 Chemical	μg/L μg/L Oral Refere	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change	5.9E+02 6.4E+02 Chemical copper Changes Made	μg/L μg/L Oral Refere	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA
value: changed to: Date of Change 4/13/2011 previous value:	Chemical copper Changes Made 3.7E-02	μg/L μg/L Oral Refere mg/kg-day	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments
value: changed to: Date of Change 4/13/2011 previous value:	Chemical copper Changes Made 3.7E-02	μg/L μg/L Oral Refere mg/kg-day	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA

Changes Made

Comments

previous value:	7.3E+00	kg-day/mg	
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter Parame
Change			
4/13/2011	chromium(VI)	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	2.1E+00	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chromium(VI)	Air, Method C, Non-carcinogen, Standard Formula Value	
4/13/2011	Cironiani(VI)	Aii, Metriou	C, Non-Carolinogen, Standard Formula Value
	Changes Made		Comments
previous value:	8.E-03	μg/m3	
changed to:	1.E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chromium(VI)	Air, Method	B, Carcinogen, Standard Formula Value
		,	
previous	Changes Made 2.1E-01	μg/m3	Comments
value: changed to:	Researched-No Data	רווי וביי	Changes to CLADC alconus levels have described
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chromium(VI)	Air, Method	B, Non-Carcinogen, Standard Formula Value
		,	
previous	Changes Made 3.7E-03	μg/m3	Comments
value:			
changed to:	4.6E-02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Ciletilicai		raiametei
4/13/2011	chromium(VI)	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
previous	2.3E-06	mg/kg-day	Commente
value: changed to:	2.9E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
onanged to.	2.70 03	mg/kg day	(December 2010)
Date of	Chemical		Parameter
Change	Olicinical		i dianictei
4/13/2011	chromium(VI)	Inhalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
previous	4.2E-02	kg-day/mg	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
	, , ,		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	chlorothalonil		d C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
		_ Comact (III)	South Griff, industrial faile ass
	01		A
previous	Changes Made	ma/ka	Comments
previous value: changed to:	Changes Made 1.2E+04 Researched-No Data	mg/kg	Comments Changes to CLARC cleanup levels based on updated

Date of	Chemical		Parameter
Change 4/13/2011	chlorothalonil	Coil Mothor	d D. Caraira and Chandard Formula Value Direct
4/13/2011	Chlorothalonii		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	9.1E+01	mg/kg	- Commonic
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
	rescurence no buta		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chlorothalonil	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
previous	Changes Made 8.E+01	μg/L	Comments
value:		P9/ -	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	chlorothalonil	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	8.E+00	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chlorothalonil	Oral Cancer Potency Factor (CPFo)	
4/10/2011	omorotratorm	Oral Carloci	Trotting ractor (or ray
previous	Changes Made	kg-day/mg	Comments
value: changed to:	No Data. What are my options?	ng day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	chloropropane;2-	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.E+01	μg/m3	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Jiloinioai		. d. d. liotoi
4/13/2011	chloropropane;2-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	4.6E+00	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Cilcilical		r ai ailietei
4/13/2011	chloropropane;2-	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
	2.9E-03	mg/kg-day	
previous value:			

Change	Chemical		Parameter
4/13/2011	chloronitrobenzene;p-		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	Changes Made 7.3E+03	mg/kg	Comments
value: changed to:	2.1E+04	mg/kg	Changes to CLARC cleanup levels based on update
		9/ 119	toxicity values (December 2010)
Date of	Chemical		Parameter
Change		O.T. Made	I.B. Consistence Constanting to Video Bired
4/13/2011	chloronitrobenzene;p-		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	5.6E+01	mg/kg	
value: changed to:	1.6E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	chloronitrobenzene;p-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	Changes Made 2.4E+01	μg/L	Conments
value:			Character Character to Characte
changed to:	6.9E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chloronitrobenzene;p-	Ground Water, Method B, Carcinogen, Standard Formula	
	-		<u> </u>
	Changes Made		Comments
orevious value:	2.4E+00	μg/L	
changed to:	6.9E+00	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	chloronitrobenzene;p-	Oral Refere	ence Dose (RfDo)
	Changas Mada		Comments
orevious value:	Changes Made Researched-No Data		Comments
changed to:	1.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Data of	Chemical		Devenueter
Date of Change	Chemical		Parameter
4/13/2011	chloronitrobenzene;p-	Inhalation F	Reference Dose (RfDi)
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	1.7E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Doromotor
Date of Change			Parameter
4/13/2011	chloronitrobenzene;p-	Oral Cance	r Potency Factor (CPFo)
	Changes Made		Comments
previous	1.8E-02	kg-day/mg	
value: changed to:	6.3E-03	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of	Chemical		Parameter
	oblorositros	Call Mart	d C. Carainagan Ctanderd Fame 1-1/-1 5' '
Change 4/13/2011	chloronitrobenzene;o-		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use

previous value:	5.3E+03	mg/kg		
changed to:	4.4E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change	Officialical		raidileter	
4/13/2011	chloronitrobenzene;o-		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use	
	Changes Made)	Comments	
previous value:	4.E+01	mg/kg		
changed to:	3.3E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	chloronitrobenzene;o-	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value	
	Changes Made	;	Comments	
previous value:	3.5E+01	μg/L		
changed to:	2.9E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	chloronitrobenzene;o-	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value	
	Changes Made	.	Comments	
previous value:	3.5E+00	μg/L		
changed to:	2.9E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	chloronitrobenzene;o-	Oral Refere	nce Dose (RfDo)	
previous	Changes Made Researched-No Data	•	Comments	
value: changed to:	3.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
			(December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	chloronitrobenzene;o-	Inhalation R	eference Dose (RfDi)	
	Changes Made	<u> </u>	Comments	
previous	Researched-No Data	-	Communica	
value: changed to:	2.9E-06	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
	,		/	
Date of	Chemical		Parameter	
Change 4/13/2011	chloronitrobenzene;o-	Oral Cancer	r Potency Factor (CPFo)	
	Changes Made	<u> </u>	Comments	
previous	2.5E-02	kg-day/mg	Comments	
value: changed to:	3.E-01	kg-dav/ma	Updated CLARC toxicity values from IRIS or NCEA	
			(December 2010)	
Date of	Chemical		Parameter	
Change	ablaram ath an -	A: N 4 = (1	C. Coroinagon, Standard Farranda Valu	
4/13/2011	chloromethane	Air, Method	C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
	1 4 4E . O4	/ 2		
previous value:	1.4E+01	μg/m3		

Date of	Chemical		Parameter
Change			
4/13/2011	chloromethane	Air, Method	d B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.4E+00	μg/m3	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
changed to.	Researched-No Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change	onomiou.		r dramotor
4/13/2011	chloromethane	Surface Wa	ater, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.3E+03	μg/L	Comments
value:		F-5/ -	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			texionly variable (Becomber 2010)
Date of Change	Chemical		Parameter
4/13/2011	chloromethane	Surface Wa	ater, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.3E+02	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change	ahlava th- c	0-0-84-0	d C. Consinous a Chamber 15 and 1 Miles 21
4/13/2011	chloromethane		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
		Comact (iii	goodier: emy), madeinariana dee
	Changes Made		Comments
previous value:	1.E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chloromethane	Soil Metho	nd B, Carcinogen, Standard Formula Value, Direct
1710/2011	ornor ornothario		gestion only), unrestricted land use
	Changes Made		Comments
previous	7.7E+01	mg/kg	Comments
value:			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxioity values (December 2010)
Detact	01		Personalis
Date of Change	Chemical		Parameter
4/13/2011	chloromethane	Ground Wa	ater, Method C, Carcinogen, Standard Formula Value
	•	•	
			_
orevious	Changes Made	ug/l	Comments
	Changes Made 3.4E+01	μg/L	Comments
/alue:	<u> </u>	μg/L	Changes to CLARC cleanup levels based on updated
value:	3.4E+01	µg/L	
value: changed to:	3.4E+01 Researched-No Data	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to:	3.4E+01	μg/L	Changes to CLARC cleanup levels based on updated
value: changed to: Date of Change	3.4E+01 Researched-No Data Chemical		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change	3.4E+01 Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
value: changed to: Date of Change 4/13/2011	3.4E+01 Researched-No Data Chemical chloromethane Changes Made	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
value: changed to: Date of Change 4/13/2011 previous	3.4E+01 Researched-No Data Chemical chloromethane		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value:	3.4E+01 Researched-No Data Chemical chloromethane Changes Made	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value:	3.4E+01 Researched-No Data Chemical chloromethane Changes Made 3.4E+00	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments
value: changed to: Date of Change 4/13/2011 previous value:	3.4E+01 Researched-No Data Chemical chloromethane Changes Made 3.4E+00	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of	3.4E+01 Researched-No Data Chemical chloromethane Changes Made 3.4E+00	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change documents o	3.4E+01 Researched-No Data Chemical chloromethane Changes Made 3.4E+00 Researched-No Data Chemical	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to:	3.4E+01 Researched-No Data Chemical chloromethane Changes Made 3.4E+00 Researched-No Data	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	3.4E+01 Researched-No Data Chemical chloromethane Changes Made 3.4E+00 Researched-No Data Chemical	Ground Wa	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter

value: changed to:	2.6E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chloromethane	Oral Cancer	r Potency Factor (CPFo)
	Changes Made		Comments
previous value:	Changes Made 1.3E-02	kg-day/mg	Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	chloromethane	Inhalation C	cancer Potency Factor (CPFi)
provious	Changes Made 6.3E-03	ka day/ma	Comments
previous value:	6.3E-03	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_coupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	chloroform	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
4/13/2011	CHIOIOIOIII	Surface wa	ter, Metriod C, Carcinogeri, Standard Formula Value
	Changes Made		Comments
previous value:	7.1E+03	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	chloroform	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	2.8E+02	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			, , , , , , , , , , , , , , , , , , , ,
Date of Change	Chemical		Parameter
4/13/2011	chloroform		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	2.2E+04	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
	,	1	, , , , , , , , , , , , , , , , , , , ,
Date of	Chemical		Parameter
Change 4/13/2011	chloroform		d B, Carcinogen, Standard Formula Value, Direct
	Ohanna Mail	Contact (Ing	gestion only), unrestricted land use
previous	Changes Made 1.6E+02	mg/kg	Comments
value:		J,9	Changes to CLABC elegatin levels have described
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Olicilical		i aranicici
4/13/2011	chloroform	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Change Made		Comments
previous	7.2E+01	μg/L	Comments
previous value:	Changes Made 7.2E+01	μg/L	Comments

changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 1/13/2011	chloroform	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
713/2011	CHIOTOTOTTI	Glound Wa	ter, Metriod B, Carcinogeri, Standard i Ormula Valde
previous	Changes Made	/!	Comments
alue:	7.2E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Officialical		Tarameter
1/13/2011	chloroform	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
revious	6.1E-03	kg-day/mg	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
3 3 4	The Dutch Times are my optioner.		(December 2010) comments_ds extended: Guidance
			is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd
			updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
1/13/2011	chlorobutane;1-	Soil, Method C, Non-carcinogen, Standard Fomula Value, Dire Contact (ingestion only), industrial land use	
	Changes Made	•	Commonto
revious	Changes Made	mg/kg	Comments
alue: changed to:	1.4E+05	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
l/13/2011	chlorobutane;1-		d B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
revious	3.2E+04	mg/kg	Comments
value: changed to:	3.2E+03	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0 110/-	Matter I O. New York Construction
l/13/2011	chlorobutane;1-	Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
revious	7.E+03	μg/L	Comments
alue: hanged to:	7.E+02	μg/L	Changes to CLARC cleanup levels based on updated
manged to.	7.L+02	µ9/∟	toxicity values (December 2010)
Date of	OL		Denomination
Date of Change	Chemical		Parameter
1/13/2011	chlorobutane;1-	Ground Wat	ter, Method B, Non-carcinogen, Standard Formula
		v alu c	
previous	Changes Made 3.2E+03	μg/L	Comments
	3 33	r-31 -	
value: changed to:	3.2E+02	μg/L	Changes to CLARC cleanup levels based on updated

	Chan	ges Made	Comments
previous value:	4.E-01	mg/kg-day	
changed to:	4.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Oral Reference Dose (RfDo)

Change

4/13/2011

chlorobutane;1-

Date of	Chemical		Parameter	
Change				
4/13/2011	chlorobenzotrifluoride;4-		d C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use	
	Changes Made	e	Comments	
previous value:	7.E+04	mg/kg		
changed to:	1.1E+04	mg/kg	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change	Onomida		r dramoto.	
4/13/2011	chlorobenzotrifluoride;4-		B, Non-carcinogen, Standard Formula Value, Directestion only), unrestricted land use	
	Changes Made	e	Comments	
orevious	1.6E+03	mg/kg		
value: changed to:	2.4E+02	mg/kg	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	chlorobenzotrifluoride;4-	Ground Wate	ter, Method C, Non-carcinogen, Standard Formula	
	Changes Made		Comments	
previous value:	3.5E+02	μg/L		
changed to:	5.3E+01	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	chlorobenzotrifluoride;4-		Ground Water, Method B, Non-carcinogen, Standard Formula Value	
		1 0.00		
orevious	Changes Made 1.6E+02	e μg/L	Comments	
value:		µ9/ ∟		
changed to:	2.4E+01	μg/L	Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	chlorobenzotrifluoride;4-	Oral Refere	nce Dose (RfDo)	
orevious	Changes Made 2.E-02		Comments	
value:	-	mg/kg-day	Hadatad Ol ADO to 177	
changed to:	3.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
			Parameter	
Date of	Chemical		ו מומוווכנכו	
	Chemical			
Change	Chemical chlorobenzotrifluoride;4-	Inhalation R	eference Dose (RfDi)	
Change 4/13/2011 previous			eference Dose (RfDi) Comments	
Change 4/13/2011 previous value:	chlorobenzotrifluoride;4-		Comments	
Change 4/13/2011 previous value:	chlorobenzotrifluoride;4- Changes Made Researched-No Data	e	Comments Updated CLARC toxicity values from IRIS or NCEA	
change 4/13/2011 previous value: changed to: Date of Change	Changes Made Researched-No Data 8.6E-02 Chemical	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter	
change 4/13/2011 previous value: changed to: Date of Change	Changes Made Researched-No Data 8.6E-02	mg/kg-day Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter	
change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made Researched-No Data 8.6E-02 Chemical chlorobenzoic acid;p-	soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct	
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: value: change	Changes Made Researched-No Data 8.6E-02 Chemical chlorobenzoic acid;p-	mg/kg-day Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C., Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use	

Date of	Chemical		Parameter	
Change 4/13/2011	chlorobenzoic acid;p-		thod B, Non-carcinogen, Standard Formula Value, Direct (ingestion only), unrestricted land use	
provious	Changes Mad		Comments	
previous value:	1.6E+04	mg/kg		
changed to:	2.4E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	chlorobenzoic acid;p-	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula	
	Changes Ma	de	Comments	
previous	7.E+03	μg/L		
value: changed to:	1.1E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	chlorobenzoic acid;p-	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula	
	Changes Ma	de	Comments	
previous value:	3.2E+03	μg/L	- Commonto	
changed to:	4.8E+02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	ablarah ayarai a asidus	Oval Defere	Tag Dags (DfDs)	
4/13/2011	chlorobenzoic acid;p-	Oral Refere	nce Dose (RfDo)	
	Changes Ma		Comments	
previous value:	2.E-01	mg/kg-day		
changed to:	3.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	chlorobenzilate	Air, Method	C, Carcinogen, Standard Formula Value	
	Changes Ma	da	Comments	
previous	3.2E-01	μg/m3	Comments	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	chlorobenzilate	Air, Method	B, Carcinogen, Standard Formula Value	
	Changes Ma	de	Comments	
previous value:	3.2E-02	μg/m3		
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	chlorobenzilate		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use	
	Changes Ma	de	Comments	
previous	4.9E+02	mg/kg		
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)	
_				
Date of Change	Chemical		Parameter	
4/13/2011	chlorobenzilate	O. T. Martha	d B, Carcinogen, Standard Formula Value, Direct	

Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

4/13/2011

chlorobenzilate

Changes Ma	ade	Comments
3.7E+00	mg/kg	
Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
	3.7E+00	3.7E+00 mg/kg

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzilate	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.2E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzilate	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.2E-01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzilate	Oral Cancer Potency Factor (CPFo)

	Changes Made		Comments
previous value:	2.7E-01	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzilate	Inhalation Cancer Potency Factor (CPFi)

	Changes Made		Comments
previous value:	2.7E-01	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzene	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.8E+01	μg/m3	
changed to:	5.E+01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzene	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	8.E+00	μg/m3	
changed to:	2.3E+01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	chlorobenzene	Inhalation Reference Dose (RfDi)

Changes Made	Comments

previous value:	5.E-03	mg/kg-day	
changed to:	1.4E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change	-1. L	A's BAstles I	0. No. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
4/13/2011	chloroaniline;p-	Air, Method	C, Non-carcinogen, Standard Formula Value
previous	Changes Made 1.4E+01	μg/m3	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
	Trebearanea Tre Bata		toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chloroaniline;p-	Air, Method	B, Non-Carcinogen, Standard Formula Value
		,	,
	Changes Made		Comments
previous value:	6.4E+00	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chloroaniline	Inhalation D	eference Dose (RfDi)
4/13/2017	chloroaniline;p-	minalation R	eieieiice Dose (KIDI)
	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cc updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	chloroaniline;p-	Oral Cancer	Potency Factor (CPFo)
	1	Cran Carres.	1 otorioy i dotor (or i o)
previous	Changes Made Researched-No Data		Comments
value:	Changes Made	kg-day/mg	
value: changed to:	Changes Made Researched-No Data 2.E-01		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
value: changed to: Date of	Changes Made Researched-No Data		Comments Updated CLARC toxicity values from IRIS or NCEA
value: changed to: Date of Change	Changes Made Researched-No Data 2.E-01	kg-day/mg Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
value: changed to: Date of Change	Changes Made Researched-No Data 2.E-01 Chemical	kg-day/mg Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter d C, Carcinogen, Standard Formula Value, Direct
Date of Change 4/13/2011	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4-	kg-day/mg Soil, Method	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
Date of Change 4/13/2011 previous value:	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4-	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C., Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C. Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d. B. Carcinogen, Standard Formula Value, Direct
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter d C, Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C. Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d. B. Carcinogen, Standard Formula Value, Direct
Date of Changed to: Previous value: changed to: Date of Change 4/13/2011 Date of Change 4/13/2011	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical chloro-2-methylaniline;4-	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C. Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d.B. Carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use
Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical chloro-2-methylaniline;4- Changes Made	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C. Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter CB, Carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use Comments Comments
Date of Change do: Date of Change do:	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical chloro-2-methylaniline;4- Changes Made 1.7E+00	kg-day/mg Soil, Method Contact (ing	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C., Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B., Carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use Comments Comments Comments Changes to CLARC cleanup levels based on updated pestion only), unrestricted land use
Date of Change 4/13/2011 Date of Change to:	Chemical Chemical Chemical Changes Made Changes Made 2.3E+02 Researched-No Data Chemical Chloro-2-methylaniline;4- Chemical Chloro-2-methylaniline;4- Changes Made 1.7E+00 Researched-No Data	kg-day/mg Soil, Method Contact (ing mg/kg mg/kg mg/kg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C.C. Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B.B. Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 Date of Change to:	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical chloro-2-methylaniline;4- Changes Made 1.7E+00 Researched-No Data	kg-day/mg Soil, Method Contact (ing mg/kg mg/kg mg/kg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C. Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Date of Change to: Date of Change to: Date of Change to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical chloro-2-methylaniline;4- Changes Made 1.7E+00 Researched-No Data Chemical chloro-2-methylaniline;4- Changes Made	kg-day/mg Soil, Method Contact (ing mg/kg mg/kg mg/kg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C.C. Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B.B. Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made Researched-No Data 2.E-01 Chemical chloro-2-methylaniline;4- Changes Made 2.3E+02 Researched-No Data Chemical chloro-2-methylaniline;4- Changes Made 1.7E+00 Researched-No Data Chemical chloro-2-methylaniline;4-	kg-day/mg Soil, Method Contact (ing mg/kg mg/kg mg/kg	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter C C, Carcinogen, Standard Formula Value, Direct pestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B B, Carcinogen, Standard Formula Value, Direct pestion only), unrestricted land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

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Date of Change	Chemical		Parameter
4/13/2011	chloro-2-methylaniline;4-	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
			<u> </u>
	Changes Made		Comments
previous	1.5E-01	μg/L	Comments
value:	Decembed No Date		Changes to CLARC alconus levels based on undeted
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	chloro-2-methylaniline;4-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous	5.8E-01	kg-day/mg	Comments
value:	N D 1 M/1 1 2	3 ** // 3	Living LOLADO (1. 17) and an investment lolado.
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	chloranil	Soil Method	d C, Carcinogen, Standard Formula Value, Direct
1710/2011	ornorariii		estion only), industrial land use
	Changes Made		Comments
previous	3.3E+02	mg/kg	
value: changed to:	3.3E+02	mg/kg	Changes to CLARC cleanup levels based on updated
		3, 3	toxicity values (December 2010)
Detect	Ol'l	T	Demonstra
Date of Change	Chemical		Parameter
4/13/2011	chloranil		B, Carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), unrestricted land use
•	Changes Made		Comments
previous value:	2.5E+00	mg/kg	
changed to:	2.5E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxiony values (December 2010)
Date of	Chemical		Parameter
Change	Giloniidai		r diamoto.
4/13/2011	chloranil	Ground Wat	er, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	2.2E+00	μg/L	
value: changed to:	2.2E+00	μg/L	Changes to CLARC cleanup levels based on updated
		F-5/1 -	toxicity values (December 2010)
Detail	O1 1 1		Parameter
Date of Change	Chemical		
	Chemical chloranil	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
Change	chloranil	Ground Wat	
Change 4/13/2011 previous		Ground Wat	cer, Method B, Carcinogen, Standard Formula Value Comments
Change 4/13/2011 previous value:	chloranil Changes Made 2.2E-01	μg/L	Comments
Change 4/13/2011 previous	chloranil Changes Made		Comments
Change 4/13/2011 previous value: changed to:	Changes Made 2.2E-01 2.2E-01	μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of	chloranil Changes Made 2.2E-01	μg/L	Comments Changes to CLARC cleanup levels based on updated
Change 4/13/2011 previous value: changed to:	Changes Made 2.2E-01 2.2E-01	μg/L μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.2E-01 2.2E-01 Chemical chloranil	μg/L μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Potency Factor (CPFo)
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 2.2E-01 2.2E-01 Chemical	μg/L μg/L Oral Cancer	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 2.2E-01 2.2E-01 Chemical chloranil Changes Made	μg/L μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Potency Factor (CPFo)

Date of	Chemical		Parameter
Change	chloral	Coil Matter	C Non carainagen Standard Famula Value Biret
4/13/2011	chloral		d C, Non-carcinogen, Standard Fomula Value, Direct jestion only), industrial land use
	Changes Made		Comments
previous	7.E+03	mg/kg	- Commonte
value:		J. J	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	chloral		B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), unrestricted land use
	Changes Made		Comments
previous value:	1.6E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	chloral	Ground Wat	ter, Method C, Non-carcinogen, Standard Formula
.,	5.110101	Value	,oo. o, Tron oaroinogon, Otandard i omidia
	Changes Made		Comments
previous	3.5E+01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change Change	Chemical		raiametei
4/13/2011	chloral	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made	,	Comments
previous	1.6E+01	μg/L	Comments
value:			
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Researched-No Data Chemical		
Date of Change		Oral Refere	toxicity values (December 2010)
Date of Change	Chemical chloral	Oral Refere	Parameter nce Dose (RfDo)
Date of Change 4/13/2011 previous	Chemical	Oral Refere	toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value:	Chemical chloral Changes Made 2.E-03		Parameter nce Dose (RfDo) Comments
Date of Change 4/13/2011 previous value:	Chemical chloral Changes Made		Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
Date of Change 4/13/2011 previous value:	Chemical chloral Changes Made 2.E-03		Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidancis provided when toxicity values are unavailable from
Date of Change 4/13/2011 previous value: changed to:	Chemical chloral Changes Made 2.E-03		Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical	mg/kg-day	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.E-03 No Data. What are my options?	mg/kg-day Soil, Method	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_of updated from 0 to 3 on May 11 2011 3:53PM
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical	mg/kg-day Soil, Method	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter C. Non-carcinogen, Standard Fomula Value, Direct
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion	mg/kg-day Soil, Method	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter C. Non-carcinogen, Standard Fomula Value, Direct pestion only), industrial land use
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made	mg/kg-day Soil, Method Contact (ing	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made 4.6E+02	mg/kg-day Soil, Method Contact (ing	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made 4.6E+02	mg/kg-day Soil, Method Contact (ing	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_oupdated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made 4.6E+02 Researched-No Data	mg/kg-day Soil, Method Contact (ing	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct lestion only), industrial land use
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made 4.6E+02 Researched-No Data Chemical carbophenothion	mg/kg-day Soil, Method Contact (ing	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B. R. Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use
Date of Change 4/13/2011 Date of Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made 4.6E+02 Researched-No Data Chemical	mg/kg-day Soil, Method Contact (ing	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_updated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B B, Non-carcinogen, Standard Formula Value, Direct lestion only), industrial land use
Change 4/13/2011 Date of Change 4/13/2011 Previous value: changed to: Date of Change 4/13/2011 Previous value: changed to: Date of Change 4/13/2011	Changes Made 2.E-03 No Data. What are my options? Chemical carbophenothion Changes Made 4.6E+02 Researched-No Data Chemical carbophenothion Changes Made	mg/kg-day Soil, Method Contact (ing mg/kg	Parameter Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM Parameter Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B. R. Non-carcinogen, Standard Formula Value, Direct lestion only), unrestricted land use

Change	Chemical		Parameter
4/13/2011	carbophenothion	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
		Value	•
	Changes Made		Comments
previous	4.6E+00	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	carbophenothion	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
	'	Value	<u> </u>
	Changes Made		Comments
previous	2.1E+00	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	carbophenothion	Oral Refere	nce Dose (RfDo)
	·	•	0
previous	Changes Made 1.3E-04	mg/kg-day	Comments
value:		g, kg day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments ds extended: Guidance
			is provided when toxicity values are unavailable from
			MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.7E+00	μg/m3	
changed to:	4.2E+00	μg/m3	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
	T		
	Chemical		Parameter
Change	Chemical carbon tetrachloride	Air, Method	Parameter B, Carcinogen, Standard Formula Value
Change	carbon tetrachloride	Air, Method	B, Carcinogen, Standard Formula Value
Change 4/13/2011			
Date of Change 4/13/2011 previous value:	carbon tetrachloride Changes Made 1.7E-01	μg/m3	B, Carcinogen, Standard Formula Value Comments
Change 4/13/2011 previous	carbon tetrachloride Changes Made		B, Carcinogen, Standard Formula Value Comments
Change 4/13/2011 previous value:	carbon tetrachloride Changes Made 1.7E-01	μg/m3	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update
Change 4/13/2011 previous value: changed to: Date of	carbon tetrachloride Changes Made 1.7E-01	μg/m3	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.7E-01 4.2E-01 Chemical	μg/m3 μg/m3	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.7E-01 4.2E-01	μg/m3 μg/m3	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made	μg/m3 μg/m3	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01	μg/m3 μg/m3 Surface Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02	μg/m3 μg/m3 Surface Wa	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01	μg/m3 μg/m3 Surface Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02	μg/m3 μg/m3 Surface Wa μg/L μg/L	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02 Chemical	μg/m3 μg/m3 Surface Wa μg/L μg/L	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02 Chemical	μg/m3 μg/m3 Surface Wa μg/L μg/L	B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02 Chemical carbon tetrachloride	μg/m3 μg/m3 Surface Wa μg/L μg/L	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02 Chemical carbon tetrachloride	μg/m3 μg/m3 Surface Wa μg/L μg/L Surface Wa Value	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02 Chemical carbon tetrachloride Changes Made 2.4E+02	μg/m3 μg/m3 Surface Wa μg/L μg/L μg/L μg/L μg/L	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Comments
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 1.7E-01 4.2E-01 Chemical carbon tetrachloride Changes Made 6.6E+01 1.2E+02 Chemical carbon tetrachloride Changes Made 2.4E+02	μg/m3 μg/m3 Surface Wa μg/L μg/L μg/L μg/L μg/L	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments Comments Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)

previous	Changes Made 2.7E+00	μg/L	Comments
value:	2.7100	µg/L	
changed to:	4.9E+00	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride	Surface W Value	/ater, Method B, Non-Carcinogen, Standard Formula
	Changes Made		Comments
previous value:	9.7E+01	μg/L	
changed to:	5.5E+02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride		od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use
	Changes Made		Comments
previous	1.E+03	mg/kg	
value: changed to:	1.9E+03	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	carbon tetrachloride		od C, Non-carcinogen, Standard Fomula Value, Direct ngestion only), industrial land use
	Changes Made		Comments
orevious value:	2.5E+03	mg/kg	
changed to:	1.4E+04	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride		od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
	Changes Made		Comments
orevious value:	7.7E+00	mg/kg	
changed to:	1.4E+01	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride		od B, Non-carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
orevious	Changes Made 5.6E+01	mg/kg	Comments
			Changes to CLARC cleanup levels based on update
value: changed to:	3.2E+02	mg/kg	toxicity values (December 2010)
value: changed to:		mg/kg	toxicity values (December 2010)
value: changed to: Date of	3.2E+02 Chemical	mg/kg	
value: changed to: Date of Change			toxicity values (December 2010)
value:	Chemical		toxicity values (December 2010) Parameter
value: changed to: Date of Change 4/13/2011 previous	Chemical carbon tetrachloride		Parameter Zater, Method C, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 Drevious value:	Chemical carbon tetrachloride Changes Made	Ground W	Parameter Vater, Method C, Carcinogen, Standard Formula Value Comments
value: changed to: Date of Change 4/13/2011 previous value: changed to:	Chemical carbon tetrachloride Changes Made 3.4E+00 6.3E+00	Ground W	Parameter Tater, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updates
value: changed to: Date of Change 4/13/2011 Drevious value: changed to: Date of	Chemical carbon tetrachloride Changes Made 3.4E+00	Ground W	Parameter Tater, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updates
value: changed to: Date of Change 4/13/2011	Chemical carbon tetrachloride Changes Made 3.4E+00 6.3E+00	Ground W μg/L μg/L	Parameter Tater, Method C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

previous	1.2E+01	μg/L	
value: changed to:			Changes to CLADC alconus levels haved an instate
changed to:	7.E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Offermoal		i arameter
4/13/2011	carbon tetrachloride	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	3.4E-01	µg/L	
changed to:	6.3E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	5.6E+00	μg/L	
value: changed to:	3.2E+01	μg/L	Changes to CLARC cleanup levels based on updated
		1 3,	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	carbon tetrachloride	Oral Refere	nce Dose (RfDo)
., 13/2011		Jiai Kelele	,
previous	Changes Made 7.E-04	mg/kg-day	Comments
value: changed to:	4.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	carbon tetrachloride	Inhalation R	eference Dose (RfDi)
1, 10, 2011		IIII Calculott	Colored Book (NE)
previous	Changes Made Researched-No Data		Comments
value:		,,,,,,	Lie let 101 ADO to 12's all as for a IDIO as NOTA
changed to:	2.9E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous value:	1.3E-01	kg-day/mg	
changed to:	7.E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	carbon tetrachloride	Inhalation C	ancer Potency Factor (CPFi)
previous	Changes Made 5.3E-02	kg-day/mg	Comments
value:	2.1E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
changed to:			(December 2010)
changed to:			B
Date of	Chemical		Parameter
Date of Change	Chemical carbazole		d C, Carcinogen, Standard Formula Value, Direct
Date of Change			
Date of Change 4/13/2011	carbazole Changes Made	Contact (ing	d C, Carcinogen, Standard Formula Value, Direct
Date of Change	carbazole		d C, Carcinogen, Standard Formula Value, Direct jestion only), industrial land use

Date of Change	Chemical		Parameter
4/13/2011	carbazole		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
previous	5.E+01	mg/kg	Comments
value:		3, 3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	carbazole	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
orevious	Changes Made 4.4F+01	μg/L	Comments
value:	1.12101	μ9/ Ε	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	carbazole	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	4.4E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical	I	Parameter
Change	Offernical		i arameter
1/13/2011	carbazole	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
orevious	2.E-02	kg-day/mg	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	captan		d C, Carcinogen, Standard Formula Value, Direct
		Contact (ing	estion only), industrial land use
	Changes Made		Comments
orevious value: changed to:	3.8E+04 Researched-No Data	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0-11-14-11	ID Considerate City In I I I I I I I I I I I I I I I I I I
1/13/2011	captan		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
orevious	2.9E+02	mg/kg	- Commonto
value: changed to:	Researched-No Data	J. 5	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
1/13/2011	captan	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	2.5E+02	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter

Ground Water, Method B, Carcinogen, Standard Formula Value

Change

4/13/2011

captan

	Changes Made	•	Comments
previous value:	2.5E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	captan	Oral Cancer Potency Factor (CPFo)

	Changes Made		Comments
previous value:	3.5E-03	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	captafol	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	1.5E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	captafol	Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	1.2E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	captafol	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.E+02	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	captafol	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	captafol	Oral Cancer Potency Factor (CPFo)

	Changes Made		Comments
previous value:	8.6E-03	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	cadmium in water	Surface Water, Method C, Non-Carcinogen, Standard Formula Value

	Changes M	ade	Comments
previous value:	5.1E+01	μg/L	
changed to:	1.E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of Change	Chemical		Parameter

Date of Change	Chemical	Parameter
4/13/2011	cadmium in water	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

μg/L

Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

previous value:

changed to:

4.1E+01

	Changes Made		Comments
changed to:	3.5E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cadmium in water	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
changed to:	8.E+01	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cadmium in water	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous 1.8E+01 μg/		μg/L	
changed to:	3.5E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cadmium in water	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Chang	ges Made	Comments
previous value:	8.E+00	μg/L	
changed to:	1.6E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cadmium in water	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	5.E-04	mg/kg-day	
changed to:	1.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cadmium in soil	Air, Method C, Carcinogen, Standard Formula Value

Changes Made		Comments	
previous value:	1.4E-02	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical		Parameter
4/13/2011	cadmium in soil	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	1.4E-03	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	cadmium in soil	Surface Wa Value	ter, Method C, Non-Carcinogen, Standard Formula
	Channa Mada		Comments
changed to:	Changes Made Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	cadmium in soil	Surface Wa Value	ter, Method B, Non-Carcinogen, Standard Formula
changed to:	Changes Made Researched-No Data		Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	cadmium in soil		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
orevious	Changes Made 3.5E+03	ma/ka	Comments
value:	3.5E+U3	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			- 4.4
4/13/2011	cadmium in soil	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use	
	Changes Made		Comments
orevious value:	8.E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	cadmium in soil	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	<u> </u>		
changed to:	Changes Made Researched-No Data		Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	cadmium in soil	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	cadmium in soil	Oral Refere	nce Dose (RfDo)
1/ 1 V/ LV 1 I	Jaaman III Joli	CIGI NOIGIE	
previous value:	Changes Made 1.E-03	mg/kg-day	Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_co

updated from (0 to 3 on	May 11 2011	3:53PM
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Date of Change	Chemical	Parameter
4/13/2011	cadmium in soil	Inhalation Cancer Potency Factor (CPFi)

	Changes Made		Comments
previous value:	6.3E+00	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	cacodylic acid	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	1.1E+04	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cacodylic acid	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	2.4E+02	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	cacodylic acid	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	3.E-03	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	butyl benzyl phthalate	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	7.E+02	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	butyl benzyl phthalate	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.2E+02	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	butyl benzyl phthalate	Surface Water, Method C, Non-Carcinogen, Standard Formula Value

previous	Changes Made 3.2E+03	μg/L	Comments
value:			
changed to:	3.1E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Onemida		i didiliciti
4/13/2011	butyl benzyl phthalate	Surface Wa Value	ter, Method B, Non-Carcinogen, Standard Formula
	Changes Made		Comments
previous value:	1.3E+03	μg/L	
changed to:	1.3E+03	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Offernical		i didilietei
4/13/2011	butyl benzyl phthalate	Inhalation R	Reference Dose (RfDi)
	Changes Made		Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA
	The Batan What are my options.		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_crupdated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change			
4/13/2011	butyl benzyl phthalate	Oral Cance	r Potency Factor (CPFo)
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	1.9E-03	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
			(Doddingor Zoro)
Date of	Chemical		Parameter
Change			
	hutadiene:1 3-	Air Method	C Carcinogen Standard Formula Value
4/13/2011	butadiene;1,3-	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made 8.E-01		C, Carcinogen, Standard Formula Value Comments
4/13/2011 previous value:	Changes Made 8.E-01	μg/m3	Comments
4/13/2011 previous value:	Changes Made		Comments
4/13/2011 previous value: changed to:	Changes Made 8.E-01 8.3E-01	μg/m3	Comments Changes to CLARC cleanup levels based on update
previous value: changed to: Date of Change	Changes Made 8.E-01 8.3E-01 Chemical	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change	Changes Made 8.E-01 8.3E-01	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
previous value: changed to: Date of Change	Changes Made 8.E-01 8.3E-01 Chemical	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3-	μg/m3 μg/m3	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made	μg/m3 μg/m3 Air, Method	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments
previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02	μg/m3 μg/m3 Air, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updates
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change to:	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical	μg/m3 μg/m3 Air, Method μg/m3 μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change to:	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical butadiene;1,3-	μg/m3 μg/m3 Air, Method μg/m3 μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 Date of Change 4/13/2011	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical	μg/m3 μg/m3 Air, Method μg/m3 μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change to:	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical butadiene;1,3- Changes Made	μg/m3 μg/m3 Air, Method μg/m3 μg/m3 Air, Method	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments Comments
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical butadiene;1,3- Changes Made 9.1E-01	μg/m3 μg/m3 Air, Method μg/m3 μg/m3 μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 8.E-01 8.3E-01 Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical butadiene;1,3- Changes Made 9.1E-01	μg/m3 μg/m3 Air, Method μg/m3 μg/m3 μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical butadiene;1,3- Chemical 8.E-02 8.3E-02 8.3E-02 Chemical butadiene;1,3- Changes Made 9.1E-01 9.1E-01	μg/m3 μg/m3 Air, Method μg/m3 μg/m3 μg/m3 μg/m3 μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Chemical butadiene;1,3- Changes Made 8.E-02 8.3E-02 Chemical butadiene;1,3- Changes Made 9.1E-01 9.1E-01 Chemical	μg/m3 μg/m3 Air, Method μg/m3 μg/m3 μg/m3 μg/m3 μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	butadiene;1,3-		od C, Non-carcinogen, Standard Fomula Value, Direct
		Contact (II	ngestion only), industrial land use
previous	Changes Made 2.E+03	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	butadiene;1,3-	Soil Meth	od B, Carcinogen, Standard Formula Value, Direct
1710/2011	battatione, 1,0		ngestion only), unrestricted land use
	Changes Made		Comments
previous value:	9.1E+00	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	butadiene;1,3-		od B, Non-carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
	Changes Made		Comments
previous value:	4.6E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	butadiene;1,3-	Ground Water, Method C, Carcinogen, Standard Formu	
	Changes Made		Comments
previous	4.E+00	μg/L	Commence
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	butadiene;1,3-	Ground W	ater, Method C, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 1.E+01	μg/L	Comments
value: changed to:	Researched-No Data	⊬ ∀' ⊢	Changes to CLARC cleanup levels based on updated
onangeu to.	NCSCAICHEUSINU DALA		toxicity values (December 2010)
_			
Date of Change	Chemical		Parameter
	butadiene;1,3-	Ground Water, Method B, Carcinogen, Standard Formul	
4/13/2011	·		
previous	Changes Made 4.E-01	μg/L	Comments
		μg/L	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
previous value:	4.E-01	μg/L	Changes to CLARC cleanup levels based on updated
previous value: changed to:	4.E-01	µg/L	Changes to CLARC cleanup levels based on updated
previous value: changed to:	4.E-01 Researched-No Data	Ground W	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
previous value: changed to: Date of Change	4.E-01 Researched-No Data Chemical butadiene;1,3-		Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter ater, Method B, Non-carcinogen, Standard Formula
previous value: changed to: Date of Change	4.E-01 Researched-No Data Chemical	Ground W	Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter

Date of Change	Chemical		Parameter
4/13/2011	butadiene;1,3-	Oral Refere	nce Dose (RfDo)
changed to:	Changes Made No Data. What are my options?		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cupdated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	butadiene;1,3-	Inhalation R	eference Dose (RfDi)
			,
changed to:	Changes Made 5.7E-04	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Data of	Ol ami'a al		December
Date of Change	Chemical		Parameter
4/13/2011	butadiene;1,3-	Oral Cancer	Potency Factor (CPFo)
changed to:	Changes Made No Data. What are my options?		Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical	Parameter	
Change			
4/13/2011	butadiene;1,3-	Inhalation C	ancer Potency Factor (CPFi)
	Changes Made		Comments
changed to:	1.1E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change 4/13/2011	Chemical bromoethene	Air, Method	Parameter C, Carcinogen, Standard Formula Value
previous	Changes Made 8.E-01	μg/m3	Comments
value: changed to:	7.8E-01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	bromoethene	Air, Method	B, Carcinogen, Standard Formula Value
previous	Changes Made 8.E-02	μg/m3	Comments
value:			
changed to:	7.8E-02	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Date Oi			
Change			
Change	bromoethene	Inhalation R	eference Dose (RfDi)
Change	bromoethene Changes Made	Inhalation R	eference Dose (RfDi) Comments
Change 4/13/2011 previous		Inhalation R	
Change 4/13/2011 previous value:	Changes Made 8.6E-04	mg/kg-day	Comments
Change 4/13/2011 previous value:	Changes Made		Comments
Change 4/13/2011 previous value: changed to: Date of	Changes Made 8.6E-04	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 8.6E-04 8.6E-04 Chemical	mg/kg-day mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of	Changes Made 8.6E-04 8.6E-04	mg/kg-day mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 8.6E-04 8.6E-04 Chemical	mg/kg-day mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
change 4/13/2011 previous value: changed to: Date of Change	Changes Made 8.6E-04 8.6E-04 Chemical bromoethene	mg/kg-day mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter ancer Potency Factor (CPFi)

Date of	Chemical		Parameter
Change 4/13/2011	bromate	Soil Method	d C, Carcinogen, Standard Formula Value, Direct
	bromate		gestion only), industrial land use
	Changes Made	e	Comments
previous	9.4E+02	mg/kg	
value: changed to:	1.9E+02	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	bromate		d C, Non-carcinogen, Standard Fomula Value, Direct
		Contact (ing	gestion only), industrial land use
previous	Changes Made 7.E+04	e mg/kg	Comments
value:	-		
changed to:	1.4E+04	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		Farameter
4/13/2011	bromate		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made	e	Comments
previous	7.1E+00	mg/kg	
value: changed to:	1.4E+00	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	bromate	Soil Method	d R. Non-carcinogon, Standard Formula Value, Direct
4/13/2011	bromate		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made	е	Comments
previous value:	1.6E+03	mg/kg	
changed to:	3.2E+02	mg/kg	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	boron	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Mad		Comments
previous	Changes Made 2.E+01	e μg/m3	Comments
value:	2.5.04	, 5	Olassa de Olas Positivos de Indiana de India
changed to:	2.E+01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Onemical		
4/13/2011	boron	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made	e	Comments
previous value:	9.1E+00	μg/m3	
changed to:	9.1E+00	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	boron	Inhalation R	Reference Dose (RfDi)
	Changes Made	Δ	Comments
changed to:	5.7E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
	Chamical		Parameter
Date of	Chemical		Farameter
Date of Change 4/13/2011	bis(2-chloroisopropyl) ether	0.4	ter, Method C, Non-Carcinogen, Standard Formula

	Changes Made		Comments
previous	1.E+05	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Gironii Gui		- diamotor
4/13/2011	bis(2-chloroisopropyl) ether	Surface Wa Value	ter, Method B, Non-Carcinogen, Standard Formula
previous	Changes Made 4.2E+04	a/I	Comments
value:	4.2E+04	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	bis(2-chloroisopropyl) ether		d C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
	Changes Made		Comments
previous	1.4E+05	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Ob aminal		Dougnester
Date of Change	Chemical		Parameter
4/13/2011	bis(2-chloroisopropyl) ether		B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	3.2E+03	mg/kg	Comments
value:		9,9	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	bis(2-chloroisopropyl) ether	Ground Wat	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	7.E+02	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update
changed to.	Researcheu-No Data		toxicity values (December 2010)
Date of	Chemical		Parameter
Change	bis(2-chloroisopropyl) ether	Ground Mar	ter, Method B, Non-carcinogen, Standard Formula
4/13/2 ∩11	bis(z-cilioroisopropyi) etriei	Value	er, Method B, Non-carcinogen, Standard i Officia
4/13/2011			
4/13/2011	Changes Made		Comments
previous	Changes Made 3.2E+02	μg/L	Comments
previous value:	_	μg/L	
previous value: changed to:	3.2E+02	μg/L	Changes to CLARC cleanup levels based on update
previous value: changed to:	3.2E+02 Researched-No Data	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
previous value: changed to: Date of Change	3.2E+02 Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
previous value: changed to: Date of Change 4/13/2011	3.2E+02 Researched-No Data Chemical bis(2-chloroisopropyl) ether Changes Made	Oral Refere	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change	3.2E+02 Researched-No Data Chemical bis(2-chloroisopropyl) ether		Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo)
previous value: changed to: Date of Change 4/13/2011 previous	3.2E+02 Researched-No Data Chemical bis(2-chloroisopropyl) ether Changes Made	Oral Refere	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo)
previous value: changed to: Date of Change 4/13/2011 previous value:	3.2E+02 Researched-No Data Chemical bis(2-chloroisopropyl) ether Changes Made 4.E-02	Oral Refere	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter nce Dose (RfDo) Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_ca

	bis(2-chloro-1-methyl- ethyl)ether	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	Researched-No Data		
value:		,	
changed to:	4.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change		L.L.L.C. D	(D(D))
4/13/2011	biphenyl;1,1-	Innalation R	eference Dose (RfDi)
-1	Changes Made	I	Comments
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cc updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change		A's BAsiles I	0.000
4/13/2011	benzyl chloride	AIF, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	5.2E-01	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Data of	Chamical		Doromotor
Date of Change	Chemical		Parameter
4/13/2011	benzyl chloride	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	Changes Made 1.E+01	μg/m3	Comments
value:			
changed to:	1.E+00	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	benzyl chloride	Air, Method	B, Carcinogen, Standard Formula Value
	Olamana Mada		0
previous	Changes Made 5.2E+02	μg/m3	Comments
value:	3.2L 1 02	μ9/1113	
	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
changed to:			toxicity values (December 2010)
changed to: Date of	Researched-No Data Chemical		
Changed to: Date of Change			toxicity values (December 2010)
Changed to: Date of Change	Chemical benzyl chloride		Parameter B, Non-Carcinogen, Standard Formula Value
Date of Change 4/13/2011	Chemical benzyl chloride Changes Made	Air, Method	toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value:	Chemical benzyl chloride Changes Made 4.6E+00	Air, Method μg/m3	Parameter B, Non-Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous value:	Chemical benzyl chloride Changes Made	Air, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 previous	Chemical benzyl chloride Changes Made 4.6E+00	Air, Method μg/m3	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical benzyl chloride Changes Made 4.6E+00 4.6E-01 Chemical	Air, Method μg/m3 μg/m3	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of	Chemical benzyl chloride Changes Made 4.6E+00 4.6E-01	Air, Method μg/m3 μg/m3 Soil, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical benzyl chloride Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride	Air, Method μg/m3 μg/m3 Soil, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical benzyl chloride Changes Made 4.6E+00 4.6E-01 Chemical	Air, Method μg/m3 μg/m3 Soil, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct
Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change	Chemical Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride Changes Made 1.E+04	Air, Method μg/m3 μg/m3 Soil, Method Contact (ing	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use Comments
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical benzyl chloride Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride Changes Made	Air, Method μg/m3 μg/m3 Soil, Method	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use Comments
Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride Changes Made 1.E+04	Air, Method μg/m3 μg/m3 Soil, Method Contact (ing	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change to: Date of Change to:	Chemical Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride Changes Made 1.E+04 7.E+03	Air, Method μg/m3 μg/m3 Soil, Method Contact (ing mg/kg mg/kg	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011 previous value: changed to:	Chemical Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride Changes Made 1.E+04 7.E+03	Air, Method μg/m3 μg/m3 Soil, Method Contact (ing mg/kg mg/kg	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: changed to: Date of Change Change to:	Chemical Changes Made 4.6E+00 4.6E-01 Chemical benzyl chloride Changes Made 1.E+04 7.E+03	Air, Method μg/m3 μg/m3 Soil, Method Contact (ing mg/kg mg/kg	Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter C, Non-carcinogen, Standard Fomula Value, Direct lestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-carcinogen, Standard Formula Value, Direct lestion only values (December 2010)

changed to:	1.6E+02	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	benzyl chloride	Cround Wa	ter, Method C, Non-carcinogen, Standard Formula
4/13/2011	benzyi chionae	Value	ter, Method C, Non-Carcinogen, Standard i Offidia
	Ol annua Maria		A
orevious	Changes Made 5.1E+01	μg/L	Comments
value:		P9/ L	
changed to:	3.5E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	benzyl chloride	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
		Value	
	Changes Made		Comments
orevious	2.3E+01	μg/L	
value:	1 65 01		Changes to CLARC cleanup levels based on updated
changed to:	1.6E+01	μg/L	toxicity values (December 2010)
Date of	Chemical		Doromotor
Date of Change	Cnemical		Parameter
4/13/2011	benzyl chloride	Oral Refere	nce Dose (RfDo)
			_
shanged to	Changes Made	// d	Comments Lindated CLARC toxisity values from IRIC or NCEA
changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
		I	
Data of	Ohamiaal		Danamatan
Date of Change	Chemical		Parameter
4/13/2011	benzyl chloride	Inhalation R	Reference Dose (RfDi)
	Changes Made	// /	Comments
changed to:	2.9E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change	Chemical		raiailletei
4/13/2011	benzyl chloride	Inhalation C	cancer Potency Factor (CPFi)
	Observation Market		
	Changes Made No Data. What are my options?		Comments Updated CLARC toxicity values from IRIS or NCEA
	INO Data. What are my obtions?		
changed to:			
changed to:	, , , , , , , , , , , , , , , , , , , ,		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from
changed to:	, , , , , , , , , , , , , , , , , , , ,		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd
changed to:			(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from
			(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd
Date of Change		Soil, Method	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter
Date of Change	Chemical benzyl alcohol		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
Date of Change 4/13/2011	Chemical		(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct
Date of Change 4/13/2011 previous value:	Chemical benzyl alcohol Changes Made 1.1E+06	Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments
Date of Change 4/13/2011 Drevious value:	Chemical benzyl alcohol Changes Made	Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 Drevious value:	Chemical benzyl alcohol Changes Made 1.1E+06	Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments
Date of Change 4/13/2011 Drevious value: changed to:	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05	Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Drevious value: changed to:	Chemical benzyl alcohol Changes Made 1.1E+06	Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05	mg/kg mg/kg	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical	mg/kg mg/kg Soil, Method	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical benzyl alcohol	mg/kg mg/kg Soil, Method	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical	mg/kg mg/kg Soil, Method Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C. Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B. Non-carcinogen, Standard Formula Value, Direct gestion only values (December 2010)
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value: change 4/13/2011	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical benzyl alcohol Changes Made 2.4E+04	mg/kg mg/kg Soil, Method Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d. C., Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d. B., Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Comments
Date of Change 4/13/2011 Date of Change to: Date of Change to: Date of Change 4/13/2011	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical benzyl alcohol Changes Made	mg/kg mg/kg Soil, Method Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Comments Changes to CLARC cleanup levels based on updated gestion only), unrestricted land use
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical benzyl alcohol Changes Made 2.4E+04	mg/kg mg/kg Soil, Method Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d. C., Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d. B., Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Comments
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value:	Chemical benzyl alcohol Changes Made 1.1E+06 3.5E+05 Chemical benzyl alcohol Changes Made 2.4E+04	mg/kg mg/kg Soil, Method Contact (ing	(December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Comments Comments Changes to CLARC cleanup levels based on updated

4/13/2011	benzyl alcohol	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	5.3E+03	μg/L	Comments
value: changed to:	1.8E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Chemical		Farameter
4/13/2011	benzyl alcohol	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious	2.4E+03	μg/L	
value: changed to:	8.E+02	μg/L	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Data of	Chamical		Parameter
Date of Change	Chemical		Parameter
4/13/2011	benzyl alcohol	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious	3.E-01	mg/kg-day	Comments
value: changed to:	1.E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
			(2000) LOTO
Date of	Chemical		Parameter
Change		0.15	
4/13/2011	benzo[k]fluoranthene	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
orevious	7.3E+00	kg-day/mg	
value: changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	benzo[b]fluoranthene	Oral Cancer	Potency Factor (CPFo)
orovious	Changes Made 7.3E+00	les decelos	Comments
previous value:	7.3E+00	kg-day/mg	
	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
changed to:			(December 2010)
changed to:	see additional information Chemical		
Changed to: Date of Change		Air, Method	(December 2010)
Changed to: Date of Change	Chemical benzo[a]pyrene	Air, Method	Parameter C, Carcinogen, Standard Formula Value
Date of Change	Chemical	Air, Method	(December 2010) Parameter
Date of Change 4/13/2011 Drevious value:	Chemical benzo[a]pyrene Changes Made 1.4E-02		Parameter C, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 Drevious value:	Chemical benzo[a]pyrene Changes Made		Parameter C, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 Drevious value: Changed to:	Chemical benzo[a]pyrene Changes Made 1.4E-02		Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update
Date of Change 4/13/2011 Drevious value: Changed to: Date of Change	Chemical benzo[a]pyrene Changes Made 1.4E-02 see additional information Chemical	μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
Date of Change 4/13/2011 Drevious value: Changed to: Date of Change	Chemical benzo[a]pyrene Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene	μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical benzo[a]pyrene Changes Made 1.4E-02 see additional information Chemical	μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter
Date of Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Chemical benzo[a]pyrene Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene Changes Made	μg/m3 Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value:	Chemical Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene Changes Made 1.4E-03	μg/m3 Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value:	Chemical Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene Changes Made 1.4E-03	μg/m3 Air, Method	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value: changed to: Change 4/13/2011	Chemical Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene Changes Made 1.4E-03 see additional information Chemical	μg/m3 Air, Method μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Parameter
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value: changed to:	Chemical benzo[a]pyrene Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene Changes Made 1.4E-03 see additional information	μg/m3 Air, Method μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011 Date of Change 4/13/2011 Date of Change 4/13/2011 Drevious value: change 4/13/2011	Chemical Changes Made 1.4E-02 see additional information Chemical benzo[a]pyrene Changes Made 1.4E-03 see additional information Chemical	μg/m3 Air, Method μg/m3	Parameter C, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter Parameter

changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	benzo[a]anthracene	Oral Cancer	Potency Factor (CPFo)
previous	Changes Made 7.3E+00	kg-day/mg	Comments
value:	7.3L+00	kg-uay/mg	
changed to:	see additional information		Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	benzene	Air, Method	C, Non-carcinogen, Standard Formula Value
changed to:	Changes Made 3.E+01	μg/m3	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change	honzono	Air Matt	P. Non Corolington, Standard Formula Value
4/13/2011	benzene	AIF, Method	B, Non-Carcinogen, Standard Formula Value
changed to:	Changes Made 1.4E+01	μg/m3	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chamical		Dougnator
Date of Change	Chemical		Parameter
4/13/2011	benzene	Inhalation R	eference Dose (RfDi)
changed to:	Changes Made 8.6E-03	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change	Chemical		Faranietei
4/13/2011	barium cyanide		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	3.5E+05	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	barium cyanide	Soil, Method	d B, Non-carcinogen, Standard Formula Value, Direct
	·		gestion only), unrestricted land use
	Changes Made		Comments
previous	8.E+03	mg/kg	Comments
value:	Researched-No Data	9/ 1.9	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0.15.1	D (DID.)
4/13/2011	barium cyanide	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	1.E-01	mg/kg-day	2 2
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	barium and compounds	Air Method	C, Non-carcinogen, Standard Formula Value
	Sanam and compounds	, an, iviculou	o, itori baromogori, otaridara i officia value

changed to:	Changes Made 5.E-01	μg/m3	Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	barium and compounds	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	2.3E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	barium and compounds	Inhalation R	Reference Dose (RfDi)
changed to:	Changes Made 1.4E-04	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical azobenzene	Air. Method	Parameter C, Carcinogen, Standard Formula Value
	Changes Made	,,	Comments
previous value:	8.1E+02	μg/m3	Commonic
changed to:	8.1E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011	Chemical azobenzene	Air, Method	Parameter B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value: changed to:	8.1E+01 8.1E-02	μg/m3 μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change 4/13/2011	Chemical azobenzene	Inhalation C	Parameter Cancer Potency Factor (CPFi)
	Changes Made		Comments
previous value:	1.1E-04	kg-day/mg	
changed to:	1.1E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter Parame
Change 4/13/2011	atrazine		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	Changes Made	_ Comact (III)	Comments
previous	6.E+02	mg/kg	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter Parame
Change 4/13/2011	atrazine		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value: changed to:	4.5E+00 Researched-No Data	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	atrazine	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	_		,, caranagon, como do como do como de com

previous value:	4.E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			. a.a.noto
4/13/2011	atrazine	Ground Wat	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	4.E-01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	atrazine	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
previous	2.2E-01	kg-day/mg	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of Change	Chemical		Parameter
4/13/2011	arsine	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	5.E-02	μg/m3	Comments
value: changed to:	5.E-02	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	arsenic, inorganic	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous	5.3E+04	μg/m3	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	arsenic, inorganic	Air, Method	B, Non-Carcinogen, Standard Formula Value
previous	Changes Made 2.4E+04	μg/m3	Comments
value:	-	μ 9 /1113	Observato OLABO discontinuida
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	arsenic, inorganic	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
previous	1.5E+01	mg/kg-day	
value: changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidanc is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Date of Change 4/13/2011	Chemical aramite		Parameter C, Carcinogen, Standard Formula Value

Changes Made

Comments

previous	3.5E+00	μg/m3	
value:			
changed to:	3.5E+00	µg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	aramite	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	3.5E-01	μg/m3	Commonic
value:	3.5E-01	/	Changes to CLARC cleanup levels based on update
changed to:	3.3E-01	μg/m3	toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	aramite	Inhalation C	anger Petengy Easter (CDEi)
4/13/2011	arannie	IIIIIaialion C	ancer Potency Factor (CPFi)
	Changes Made		Comments
previous	2.5E-02	kg-day/mg	
value: changed to:	2.5E-02	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
	2.50 02	kg day/mg	(December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	antimony trioxide	Soil Method	d C, Non-carcinogen, Standard Fomula Value, Direct
T/ 10/2011	andinony moxide		estion only), industrial land use
previous	Changes Made 1.4E+03	ma/ka	Comments
value:	1. T L⊤UJ	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	antimony trioxide		d B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	3.2E+01	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Glicillical		Fai ailicici
4/13/2011	antimony trioxide	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	1.4E+01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	antimony trioxide	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	<u> </u>		
previous	Changes Made	ug/I	Comments
previous value:	6.4E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on update toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	antimony trioxide	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	4.E-04	mg/kg-day	Comments
value: changed to:	No Data. What are my options?	J. J /	Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance

MTCA information hierarchy (April 2011) and note_cd
updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	aniline	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	4.6E-01	μg/m3	
changed to:	4.6E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	aniline	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	7.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	aminopyridine;4-	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	7.E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	aminopyridine;4-	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	1.6E+00	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	aminopyridine;4-	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	7.E-01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	aminopyridine;4-	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	3.2E-01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	aminopyridine;4-	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	2.E-05	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of	Chemical		Parameter
Change			
4/13/2011	aminophenol;m-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	2.5E+05	mg/kg	Comments
value: changed to:	2.8E+05	mg/kg	Changes to CLARC cleanup levels based on update
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	aminophenol;m-		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous	5.6E+03	mg/kg	Comments
value: changed to:	6.4E+03	ma/ka	Changes to CLARC cleanup levels based on update
changed to.	0.4E+03	mg/kg	toxicity values (December 2010)
Date of	Chemical		Parameter
Change		0.15.6	
4/13/2011	aminophenol;m-	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
previous	7.E-02	mg/kg-day	
value: changed to:	8.E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	allyl chloride	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	4.6E-01	μg/m3	Comments
value: changed to:	4.6E-01	μg/m3	Changes to CLARC cleanup levels based on update toxicity values (December 2010)
			Torrior, Tallaco (December 2016)
Date of	Chemical		Parameter
Change			
4/13/2011	allyl chloride		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
previous	Changes Made	mg/kg	Comments
value:		mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
Date of	Chemical		Parameter
Change	allyl ablarida	Coil Mad	N.D. Non coreinagen Chanderd Farmula V. L. B.
4/40/0044	allyl chloride	Soil, Method B, Non-carcinogen, Standard Formula Value, Dire Contact (ingestion only), unrestricted land use	
4/13/2011		Contact (ing	estion only), unrestricted land use
	Changes Made		Comments
previous	Changes Made 4.E+03	mg/kg	
previous value:	-		Comments
previous value: changed to:	4.E+03 Researched-No Data		Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
previous value: changed to: Date of Change	4.E+03 Researched-No Data Chemical	mg/kg	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010) Parameter
previous value: changed to: Date of Change	4.E+03 Researched-No Data	mg/kg	Comments Changes to CLARC cleanup levels based on updat toxicity values (December 2010)
previous value: changed to: Date of Change	4.E+03 Researched-No Data Chemical	mg/kg Ground Wa	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter
previous value: changed to: Date of Change 4/13/2011 previous	4.E+03 Researched-No Data Chemical allyl chloride	mg/kg Ground Wa	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-carcinogen, Standard Formula
previous value: changed to: Date of Change 4/13/2011 previous value: changed to:	4.E+03 Researched-No Data Chemical allyl chloride Changes Made	mg/kg Ground Wavalue	Comments Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-carcinogen, Standard Formula Comments
previous value: changed to: Date of Change 4/13/2011 previous value:	4.E+03 Researched-No Data Chemical allyl chloride Changes Made 8.8E+02	mg/kg Ground Wavalue	Changes to CLARC cleanup levels based on update toxicity values (December 2010) Parameter ter, Method C, Non-carcinogen, Standard Formula Comments Changes to CLARC cleanup levels based on update

4/13/2011	allyl chloride	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	4.E+02	μg/L	Comments
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	allyl chloride	Oral Refere	nce Dose (RfDo)
			`
previous	Changes Made 5.E-02	ma/ka day	Comments
value:	5.E-02	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Date of	Chemical		Parameter
Change 4/13/2011	allyl alcohol	Inhalation D	Reference Dose (RfDi)
4/10/2011	aliyi alcullul	minalation K	releiging Dose (VIDI)
-	Changes Made	ı	Comments
previous value:	Researched-No Data		
changed to:	2.9E-05	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	alachlor	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use	
	Changes Made		Comments
previous	1.6E+03	mg/kg	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	alachlor		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	1.2E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	alachlor	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	1.1E+01	μg/L	
value: changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Data of	Chamical		Doromotor
Date of Change	Chemical		Parameter
4/13/2011	alachlor	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Ob 35 1		0
previous	Changes Made 1.1E+00	μg/L	Comments
value:		µ9/ ∟	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	alachlor	Oral Cance	r Potency Factor (CPFo)

	Changes Made		Comments
previous value:	8.1E-02	kg-day/mg	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Surface Water, Method C, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	2.2E+02	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Surface Water, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	8.6E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	3.5E+03	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	8.E+01	mg/kg	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.8E+01	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	8.E+00	μg/L	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylonitrile	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	1.E-03	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	acrylic acid	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	4.6E-01	μg/m3	
changed to:	4.6E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylamide	Air, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.9E-02	μg/m3	
changed to:	2.5E-01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylamide	Air, Method B, Carcinogen, Standard Formula Value

	Chang	es Made	Comments
previous value:	1.9E-03	μg/m3	
changed to:	2.5E-02	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylamide	Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	2.9E+01	mg/kg	
changed to:	2.6E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylamide	Soil, Method C, Non-carcinogen, Standard Fomula Value, Direct Contact (ingestion only), industrial land use

	Changes Made		Comments
previous value:	7.E+02	mg/kg	
changed to:	7.E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylamide	Soil, Method B, Carcinogen, Standard Formula Value, Direct
		Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	2.2E-01	mg/kg	
changed to:	2.E+00	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acrylamide	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use

	Cha	nges Made	Comments
previous	1.6E+01	mg/kg	

value:			
changed to:	1.6E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	acrylamide	Ground Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	9.7E-02	μg/L	
changed to:	8.8E-01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	acrylamide	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
		. 3.30	
orevious value:	Changes Made 3.5E+00	μg/L	Comments
changed to:	3.5E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	acrylamide	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	9.7E-03	μg/L	
changed to:	8.8E-02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	acrylamide	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
		value	_
previous	Changes Made	μg/L	Comments
value: changed to:	1.6E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	acrylamide	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
orevious	Changes Made 2.E-04	mg/kg-day	Comments
value: changed to:	2.E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	acrylamide	Inhalation R	eference Dose (RfDi)
previous	Changes Made Researched-No Data		Comments
value: changed to:	1.7E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
	'	-	
Date of	Chemical		Parameter
Change 4/13/2011	acrylamide	Oral Canco	r Potency Factor (CPFo)
7/ 13/2011		Oral Caricel	TOTETICY LACTOR (OFFU)
nrevious	Changes Made	ka-day/m-	Comments
previous value:	4.5E+00	kg-day/mg	
changed to:	5.E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA

Date of Change	Chemical		Parameter
4/13/2011	acrylamide	Inhalation C	ancer Potency Factor (CPFi)
1/10/2011	dorylaringe	mindidition C	and received reactive (erri)
	Changes Made		Comments
previous	4.6E+00	kg-day/mg	
value: changed to:	3.5E-01	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA
onangea to.	5.52 01	kg day/ing	(December 2010)
Date of	Chemical		Parameter
Change	Chemical		Farameter
4/13/2011	acrolein		d C, Non-carcinogen, Standard Fomula Value, Direct
	Contact (ingestion only), industrial land use		
	Changes Made		Comments
previous	7.E+04	mg/kg	Comments
value:			
changed to:	1.8E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	acrolein	Soil Method	d B, Non-carcinogen, Standard Formula Value, Direct
4/13/2011	acroient		gestion only), unrestricted land use
		, ,	
manda	Changes Made	w n	Comments
previous value:	1.6E+03	mg/kg	
changed to:	4.E+01	mg/kg	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	acrolein	Ground War	ter, Method C, Non-carcinogen, Standard Formula
		value	
	Changes Made		Comments
previous	3.5E+02	μg/L	
value: changed to:	8.8E+00	μg/L	Changes to CLARC cleanup levels based on updated
	0.02 + 00	P3/ -	toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	acrolein	Ground War Value	ter, Method B, Non-carcinogen, Standard Formula
		value	
	Changes Made		Comments
previous	1.6E+02	μg/L	
value: changed to:	4.E+00	μg/L	Changes to CLARC cleanup levels based on updated
onangoa to.	1.2100	μ9/ Ε	toxicity values (December 2010)
Date of	Chemical		Parameter
Change	Gireniloui		r di dillottoi
4/13/2011	acrolein	Oral Refere	nce Dose (RfDo)
	<u> </u>		
previous	Changes Made 2.E-02	mg/kg-day	Comments
previous value:	∠.L-U∠	mg/kg-udy	
changed to:	5.E-04	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA
			(December 2010)
Date of	Chemical		Parameter
Change	opifluorfor and the	Call BA - 1	C Non corolination Official and Facility 12 Mark
4/13/2011	acifluorfen, sodium		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
		,	
	Changes Made		Comments
previous value:	4.6E+04	mg/kg	
changed to:	4.6E+04	mg/kg	Changes to CLARC cleanup levels based on updated
J 1.13.	-	51 5	toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	acifluorfen, sodium		d B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), unrestricted land use

	Chang	ges Made	Comments
previous value:	1.1E+03	mg/kg	
changed to:	1.E+03	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acifluorfen, sodium	Ground Water, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	2.3E+02	μg/L	
changed to:	2.3E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acifluorfen, sodium	Ground Water, Method B, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.1E+02	μg/L	
changed to:	1.E+02	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acifluorfen, sodium	Oral Reference Dose (RfDo)

	Changes Made		Comments
previous value:	1.3E-02	mg/kg-day	
changed to:	1.3E-02	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acetophenone	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.8E-02	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acetophenone	Air, Method B, Non-Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	8.E-03	μg/m3	
changed to:	Researched-No Data		Changes to CLARC cleanup levels based on updated toxicity values (December 2010)

Date of Change	Chemical	Parameter
4/13/2011	acetophenone	Inhalation Reference Dose (RfDi)

	Changes Made		Comments
previous value:	5.E-06	mg/kg-day	
changed to:	No Data. What are my options?		Updated CLARC toxicity values from IRIS or NCEA (December 2010) comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM

Date of Change	Chemical	Parameter
4/13/2011	acetone cyanohydrin	Air, Method C, Non-carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.4E+02	μg/m3	

	6.E+01	μg/m3	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of	Chemical		Parameter
Change			
4/13/2011	acetone cyanohydrin	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	6.4E+01	μg/m3	
value: changed to:	2.7E+01	μg/m3	Changes to CLARC cleanup levels based on updated
			toxicity values (December 2010)
Date of	Chemical		Parameter
Change 4/13/2011	acetone cyanohydrin	Soil Method	C, Non-carcinogen, Standard Fomula Value, Direct
1710/2011			estion only), industrial land use
	Changes Made		Comments
previous value:	2.8E+03	mg/kg	
changed to:	1.1E+04	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
			10.110.00 (2.000.110.01.20.10)
Date of	Chemical		Parameter
Change 4/13/2011	acetone cyanohydrin		B, Non-carcinogen, Standard Formula Value, Direct
			estion only), unrestricted land use
	Changes Made		Comments
changed to:	2.4E+02	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	acetone cyanohydrin	Ground Wat	er, Method C, Non-carcinogen, Standard Formula
		value	
previous	Changes Made	μg/L	Comments
value:	F 2F : 01		Changes to CLADO classical based on undetected
changed to:	5.3E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
Date of Change	Chemical	Parameter	
4/13/2011	acetone cyanohydrin		er, Method B, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 6.4E+00	μg/L	Comments
value:			
changed to:	2.4E+01	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)
	Chemical		Parameter
		Oral Reference Dose (RfDo)	
Change	acetone cyanohydrin	Oral Refere	nce Dose (RfDo)
Date of Change 4/13/2011		Oral Refere	
Change 4/13/2011 previous	acetone cyanohydrin Changes Made 8.E-04	Oral Referen	Comments
Change	Changes Made		Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value:	Changes Made 8.E-04	mg/kg-day	Comments
Change 4/13/2011 previous value: changed to: Date of	Changes Made 8.E-04	mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 8.E-04 3.E-03 Chemical	mg/kg-day mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change	Changes Made 8.E-04 3.E-03 Chemical acetone cyanohydrin	mg/kg-day mg/kg-day	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter eference Dose (RfDi)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	Changes Made 8.E-04 3.E-03 Chemical	mg/kg-day mg/kg-day Inhalation R	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 8.E-04 3.E-03 Chemical acetone cyanohydrin Changes Made 4.E-02	mg/kg-day mg/kg-day Inhalation R	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter eference Dose (RfDi) Comments
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	Changes Made 8.E-04 3.E-03 Chemical acetone cyanohydrin Changes Made	mg/kg-day mg/kg-day Inhalation R	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter eference Dose (RfDi)
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	Changes Made 8.E-04 3.E-03 Chemical acetone cyanohydrin Changes Made 4.E-02	mg/kg-day mg/kg-day Inhalation R	Comments Updated CLARC toxicity values from IRIS or NCEA (December 2010) Parameter eference Dose (RfDi) Comments Updated CLARC toxicity values from IRIS or NCEA

4/13/2011	acetone		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use	
		00111301 (111)		
previous	Changes Made	ma/ka	Comments	
value:	3.5E+05	mg/kg		
changed to:	3.2E+06	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of Change	Chemical		Parameter	
4/13/2011	acetone		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use	
	Changes Made		Comments	
previous value:	8.E+03	mg/kg		
changed to:	7.2E+04	mg/kg	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change				
4/13/2011	acetone	Ground Water	ter, Method C, Non-carcinogen, Standard Formula	
previous	Changes Made	uc/I	Comments	
value:	1.8E+03	μg/L		
changed to:	1.6E+04	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change		0	Ass. Madhad D. Niccourt	
4/13/2011	acetone	Ground Water, Method B, Non-carcinogen, Standard Formula Value		
	Changes Made		Comments	
previous value:	8.E+02	μg/L		
changed to:	7.2E+03	μg/L	Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Date of	Chemical		Parameter	
Change 4/13/2011	acetone	Oral Potoro	nco Doco (PfDo)	
4/13/2011	acetorie	Oral Reference Dose (RfDo)		
previous	Changes Made 1.E-01	mg/kg-day	Comments	
value: changed to:	9.E-01	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA	
			(December 2010)	
Date of	Chemical			
Date of Change	Chemical		Parameter	
Change	Chemical 2-chloro-1,3-butadiene	Air, Method		
			Parameter	
Change 4/13/2011 previous	2-chloro-1,3-butadiene	Air, Method μg/m3	Parameter C, Non-carcinogen, Standard Formula Value	
Change 4/13/2011	2-chloro-1,3-butadiene Changes Made		Parameter C, Non-carcinogen, Standard Formula Value	
change 4/13/2011 previous value: changed to:	2-chloro-1,3-butadiene Changes Made 7.E+00 2.E+01	μg/m3	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010)	
Change 4/13/2011 previous value:	2-chloro-1,3-butadiene Changes Made 7.E+00	μg/m3 μg/m3	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated	
Change 4/13/2011 previous value: changed to: Date of Change	2-chloro-1,3-butadiene Changes Made 7.E+00 2.E+01 Chemical	μg/m3 μg/m3	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011	2-chloro-1,3-butadiene Changes Made 7.E+00 2.E+01 Chemical 2-chloro-1,3-butadiene Changes Made	μg/m3 μg/m3 Air, Method	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	2-chloro-1,3-butadiene Changes Made 7.E+00 2.E+01 Chemical 2-chloro-1,3-butadiene Changes Made 3.2E+00	μg/m3 μg/m3 Air, Method	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous	2-chloro-1,3-butadiene Changes Made 7.E+00 2.E+01 Chemical 2-chloro-1,3-butadiene Changes Made	μg/m3 μg/m3 Air, Method	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value	
Change 4/13/2011 previous value: changed to: Date of Change 4/13/2011 previous value:	2-chloro-1,3-butadiene Changes Made 7.E+00 2.E+01 Chemical 2-chloro-1,3-butadiene Changes Made 3.2E+00	μg/m3 μg/m3 Air, Method	Parameter C, Non-carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated toxicity values (December 2010) Parameter B, Non-Carcinogen, Standard Formula Value Comments Changes to CLARC cleanup levels based on updated	

	Changes Mad	de	Comments
previous	2.E-03	mg/kg-day	
value: changed to:	5.7E-03	mg/kg-day	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Date of Change	Chemical		Parameter
4/13/2011	2-chloro-1,3-butadiene	Inhalation C	Cancer Potency Factor (CPFi)
		_	_
previous	Changes Mad Researched-No Data	de	Comments
value: changed to:	1.1E+00	kg-day/mg	Updated CLARC toxicity values from IRIS or NCEA (December 2010)
Data of	Chaminal		Danamatan
Date of Change	Chemical		Parameter
4/13/2011	tph, mineral oil	Ground Wa	ter, Method A, Table Value
	Changes Mar	40	Comments
previous	Changes Mad	μg/L	Comments
value: changed to:	5.E+02	μg/L	Correction to CLARC cleanup level based on Method A table
		'	
Date of	Chemical		Parameter
Change 4/22/2010	trichloroethane;1,1,1-	Surface Wa Value	ter, Method B, Non-Carcinogen, Standard Formula
	Changes Mad	de	Comments
previous value:	4.2E+05	μg/L	
changed to:	9.3E+05	μg/L	IRIS update
Date of Change	Chemical		Parameter
4/22/2010	trichloroethane;1,1,1-		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Mad	de	Comments
previous	3.2E+06	mg/kg	
value: changed to:	7.E+06	mg/kg	IRIS update
Date of	Chemical		Parameter
Change 4/22/2010	trichloroethane;1,1,1-		d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Mad	de	Comments
previous	7.2E+04	mg/kg	
value: changed to:	1.6E+05	mg/kg	IRIS update
	<u> </u>	T	
Date of Change	Chemical		Parameter
4/22/2010	trichloroethane;1,1,1-	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	Changes Mad	de	Comments
previous value:	1.6E+04	μg/L	IRIS update
changed to:	3.5E+04	μg/L	IRIS update
Date of	Chemical		Parameter
Change			
4/22/2010	trichloroethane;1,1,1-	Ground Wa Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes Mad	de	Comments
previous	7.2E+03	μg/L	
value:		F31 -	

μg/L

changed to:

1.6E+04

IRIS update

Changes Made revious alue: hanged to: Changes Made Changes Made Changes Made Researched-No Data Changes Made Changes Made Changes Made Changes Made Changes Made Changes Made Researched-No Data Changes Made Changes Made Changes Made Changes Made Researched-No Data Changes Made Changes Made Changes Made Changes Made Researched-No Data Changes Made Changes Made Changes Made Researched-No Data Changes Made Researched-No Data Changes Made Researched-No Data Changes Made Researched-No Data Resea	Changes Made revious part of Changes Made revious previous part of Changes Made revious part of Changes Made previous part of Changes Made part of Change Made previous part of Change Made previous part of Changes Made part of Changes Made previous part of Changes Made part of Changes M	Date of	Chemical		Parameter	
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revious alue: hanged to: 2.E+00	Parameter Parameter	4/22/2010	tricnioroetnane;1,1,1-	Oral Referei	nce Dose (RTD0)	
latue: hanged to: 2,E+00 mg/kg-day IRIS update Chemical	Date of Changes Made Comments		Changes Made		Comments	
hanged to: 2.E+00 mg/kg-day IRIS update Parameter	Changes Made Change I indane Changes Made Orevious Parameter Changes Chemical Orevious Parameter Change Changes Made Orevious Parameter Changes Parameter Changes Parameter Changes Parameter Changes Parameter Changes Made Orevious Parameter Changes Made Parameter Changes Made Parameter Changes Made Orevious Oreviou		9.E-01	mg/kg-day		
trate of change (722/2010) lindane Surface Water, Method C, Carcinogen, Standard Formula Value (722/2010) lindane Surface Water, Method C, Carcinogen, Standard Formula Value (722/2010) lindane Parameter (722/2010) lindane Surface Water, Method B, Carcinogen, Standard Formula Value (722/2010) lindane Surface Water, Method B, Carcinogen, Standard Formula Value (722/2010) lindane Researched-No Data IRIS deleted cancer potency value. Changes Made Comments	Change Made Comments Changes Made Comments Octate of Changes Made Parameter Changes Made Comments Changes Made Comments Changes Made Parameter Changes Made Comments Changes Made Parameter Changes Made Comments		2 E±00	ma/ka-day	IRIS undate	
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thange Indiane Surface Water, Method C, Carcinogen, Standard Formula Value Parameter	Change W22/2010 lindane Surface Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments Parameter Change W22/2010 lindane Surface Water, Method B, Carcinogen, Standard Formula Value W22/2010 lindane Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Comments Parameter Changes Made Comments Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes Made IRIS deleted cancer potency value. Changes Made Comments Parameter Changes Made Comments Parameter Contact (ingestion only), industrial land use Changes Made Comments Parameter Contact (ingestion only), industrial land use Changes Made Comments Parameter Contact (ingestion only), undustrial land use Changes Made Comments Parameter Contact (ingestion only), undustrial land use Changes Made Comments Parameter Changes Made Comments					
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revious alue: Researched-No Data	Date of Changes Made Comments Changes Made Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Comments Changes Made IRIS deleted cancer potency value. Changes Made Comments Date of Chemical Parameter Changes Made Comments Date of Chemical Parameter Change Made IRIS deleted cancer potency value. Changes Made Comments Date of Chemical Parameter Change Made Comments The Change Made Comments Changes Made IRIS deleted cancer potency value, Direct Contact (ingestion only), industrial land use Changes Made IRIS deleted cancer potency value. Changes Made Comments Date of Changes Made IRIS deleted cancer potency value. Changes Made Comments Date of Change Researched-No Data IRIS deleted cancer potency value. Changes Made Comments The Change Made Comments Changes Made Comments Changes Made Contact (ingestion only), unrestricted land use Changes Made Comments The Changes Made Comments				, , , , , , , , , , , , , , , , , , , ,	
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Changes Made Change do: Changes Made Changes Made Changes Made Comments Changed to: Changes Made Changes Made Comments Changed to: Changes Made Comments Changes Made Comments Change Changes Made Comments Comments Changes Made Comments Commen	Change 4/22/2010 lindane Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments Orevious 6.7E-01	Date of Change d/22/2010 Drevious value: changed to: Date of Change d/22/2010 Drevious value: changed to: Date of Change d/22/2010 Drevious value: change d/22/2010	Chemical Iindane Changes Made 6.7E-02 Researched-No Data Chemical Iindane Chemical Iindane Changes Made 1.3E+00	Ground Wat	Parameter ter, Method B, Carcinogen, Standard Formula Value Comments IRIS deleted cancer potency value. Parameter Potency Factor (CPFo) Comments IRIS deleted cancer potency value.	
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Date of Change	Chemical		Parameter
4/22/2010	ethylene dibromide (EDB)		C, Carcinogen, Standard Formula Value, Direct estion only), industrial land use
		,	
previous	Changes Made 1.5E+00	mg/kg	Comments
value: changed to:	6.6E+01	mg/kg	Changed due to change in current IRIS value
		, J, J	
Date of Change	Chemical		Parameter
4/22/2010	ethylene dibromide (EDB)		B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made	· · · · · · · · · · · · · · · · · · ·	Comments
previous	Changes Made 1.2E-02	mg/kg	Comments
value: changed to:	5.E-01	-	Changed due to change in current IRIS value
crianged to.	3.E-01	mg/kg	Changed due to change in current into value
Date of	Chemical		Parameter
Change	othydone dibrerside (EDD)	Oracio di Ma	or Method C. Corriganon Otandard Francisco
4/22/2010	ethylene dibromide (EDB)	Ground Wa	er, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	5.1E-03	μg/L	
value: changed to:	2.2E-01	μg/L	Changed due to change in current IRIS value
Date of Change	Chemical		Parameter
4/22/2010	ethylene dibromide (EDB)	Ground Wa	er, Method B, Carcinogen, Standard Formula Value
previous	Changes Made 5.1E-04	μg/L	Comments
value: changed to:	2.2E-02	μg/L	Changed due to change in current IRIS value
		1 0,	
Date of	Chemical		Parameter
Change 4/22/2010	ethylene dibromide (EDB)	Oral Cancer	Potency Factor (CPFo)
	,		, , , , , , , , , , , , , , , , , , , ,
	Changes Made		Comments
previous value:	8.5E+01	kg-day/mg	
changed to:	2.E+00	kg-day/mg	Changed to current IRIS value
Data of	Ol sur's al		Barranda
Date of Change	Chemical		Parameter
4/22/2010	ethylene dibromide (EDB)	Oral Refere	nce Dose (RfDo)
	Changes Made		Comments
	Changes Made Researched-No Data		Comments
value:	_	mg/kg-day	Comments Changed to current IRIS value
value:	Researched-No Data	mg/kg-day	
value: changed to: Date of	Researched-No Data	mg/kg-day	
value: changed to: Date of Change	Researched-No Data 9.E-03		Changed to current IRIS value
value: changed to: Date of Change	Researched-No Data 9.E-03 Chemical octabromodiphenyl ethers		Changed to current IRIS value Parameter er, Method C, Carcinogen, Standard Formula Value
Date of Change	Researched-No Data 9.E-03 Chemical octabromodiphenyl ethers Changes Made		Changed to current IRIS value Parameter
previous value: changed to: Date of Change 12/22/2008 previous value: changed to:	Researched-No Data 9.E-03 Chemical octabromodiphenyl ethers		Changed to current IRIS value Parameter er, Method C, Carcinogen, Standard Formula Value

Date of	Chemical		Parameter
Change	Live Live Colored	0 1)4/-	to Matte 10, Occiones Otro Indiana In Value
12/22/2008	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'	Ground wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	Researched-No Data		Comments
value:	Researched No Data		
changed to:	1.3E+03	μg/L	
Date of	Chemical		Parameter
Change			
12/22/2008	octabromodiphenyl ethers	Ground Wa	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	1.1E+02	μg/L	
Date of	Chemical		Parameter
Change			
12/22/2008	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'	Ground Wa Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made	1	Comments
previous	Researched-No Data		Commonto
value: changed to:	2.5E+02	μg/L	
Date of	Chemical		Parameter
Change			
12/22/2008	octabromodiphenyl ethers	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	Researched-No Data		Oral cancer potencey factor unavailable in IRIS to
onangoa to.	Researched No Bata		calculate Method B Ground water value.
Date of Change	Chemical		Parameter
12/22/2008	decabromodiphenyl	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
	ether;2,2',3,3',4,4',5,5',6,6'		,
<u>—</u>	Changes Made		Comments
previous	Researched-No Data		Comments
value:		1, = /1	
changed to:	1.3E+02	μg/L	
Date of Change	Chemical		Parameter
12/22/2008	octabromodiphenyl ethers	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
previous	Changes Made Researched-No Data		Comments
value:			
changed to:	4.8E+01	μg/L	
Date of Change	Chemical		Parameter
12/22/2008	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'	Ground Wa	ter, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	Researched-No Data		Comments
value:			
changed to:	1.1E+02	μg/L	
Date of	Chemical		Parameter
Change			

	octabromodiphenyl ethers		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	1.1E+04	mg/kg	
value: changed to:	1.1E+04	mg/kg	
		3, 3	
Date of Change	Chemical		Parameter
12/22/2008	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'		d C, Non-carcinogen, Standard Fomula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous	3.5E+04	mg/kg	
value: changed to:	2.5E+04	mg/kg	
	'		
Date of	Chemical		Parameter
Change 12/22/2008	octabromodiphenyl ethers	Soil Method	d B, Non-carcinogen, Standard Formula Value, Direct
12/22/2000	octabiomodiphenyl ethers		gestion only), unrestricted land use
	Changes Made		Comments
previous value:	2.4E+02	mg/kg	
changed to:	2.4E+02	mg/kg	
Date of	Chemical	Parameter	
Change	Glienileai		r ai ailletei
12/22/2008	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'	Soil, Method B, Non-carcinogen, Standard Formula Value, Dir Contact (ingestion only), unrestricted land use	
orevious	Changes Made 8.E+02	mg/kg	Comments
value:			
changed to:	5.6E+02	mg/kg	
Date of Change	Chemical		Parameter
12/22/2008	octabromodiphenyl ethers	Inhalation C	Correction Factor (INH)
previous	Changes Made Researched-No Data		Comments
value:			VP: 0F 10 1 7F 00 mmHg: Documpages : 220cC
changed to:	1.E+00	unitless	VP: 9E-10-1.7E-09 mmHg; Decomposes >330oC
Date of	Chemical		Parameter
Change 12/22/2008	decabromodiphenyl	Inhalation C	Correction Factor (INH)
12/22/2000	ether;2,2',3,3',4,4',5,5',6,6'	minalation	orrection ractor (INT)
	Changes Made	•	Comments
previous	Researched-No Data		
value: changed to:	1.E+00	unitless	VP: 3.2E-08-3.47E-08; Decomposes >320oC
		1	
Date of Change	Chemical		Parameter
12/22/2008	decabromodiphenyl	Oral Cance	r Potency Factor (CPFo)
	ether;2,2',3,3',4,4',5,5',6,6'		
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	7.E-04	kg-day/mg	
Date of	Chemical		Parameter
Change			

value: T,E-03 mg/kg-day Date of Chemical Parameter Change Made Comments Researched-No Data What are my options? Changes Made Changed to: Chemical Parameter Changes Made Researched-No Data What are my options? Changes Made Changed to: Chemical Parameter Changes Made Comments Researched-No Data What are my options? Changes Made Changes Made Change Changes Made Change octahodox-Guidance is provided when toxicity values are unavailable from M10 for 3 on May 11 2011 3 de April 12 2013 and note_od updated from 0 to 3 on May 12 2222008 Changes Made Comments Date of Changes Made Comments Date of Changes Made Comments Changes Made Comments Date of Changes Made Changed to: L7E+02 Surface Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments Date of Changes Made Changed to: L7E+02 Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Comments Changes Made Comme	Date of Changes Made Comments Changes Made Chang	12/22/2008	decabromodiphenyl ether;2,2',3,3',4,4',5,5',6,6'	Oral Referen	ce Dose (RfDo)
value: T,E-03 mg/kg-day Date of Chemical Parameter Change Made Comments Researched-No Data What are my options? Changes Made Changed to: Chemical Parameter Changes Made Researched-No Data What are my options? Changes Made Changed to: Chemical Parameter Changes Made Comments Researched-No Data What are my options? Changes Made Changes Made Change Changes Made Change octahodox-Guidance is provided when toxicity values are unavailable from M10 for 3 on May 11 2011 3 de April 12 2013 and note_od updated from 0 to 3 on May 12 2222008 Changes Made Comments Date of Changes Made Comments Date of Changes Made Comments Changes Made Comments Date of Changes Made Changed to: L7E+02 Surface Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments Date of Changes Made Changed to: L7E+02 Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Comments Changes Made Comme	Date of Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Comments Researched-No Data What are my options? Date of Changes Made Changes Made Change IT 20222008 Changes Made Comments Researched-No Data What are my options? Date of Changes Made Changes Made Change IT 2000 A May IT 2011 3.64PM Date of Changes Made Changes Made Changes Made Change IT 2000 A May IT 2011 3.64PM Date of Changes Made Changes Made Changes Made Change IT 2000 A May IT 2011 3.64PM Date of Changes Made Changes Made Changes Made Changed to: 1.7E+02 Date of Changes Made Changed Trichloroethylene Surface Water, Method C, Carcinogen, Standard Formula Value Changed to: 6.7E+00 Date of Chemical Parameter Changes Made Changes Made Changes Made Changed to: 1.7E+02 Date of Chemical Parameter Changes Made Changes Made Changes Made Changed to: 1.7E+02 Date of Chemical Parameter Changes Made Changes Made Changes Made Change Trichloroethylene Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Change Trichloroethylene Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Change Trichloroethylene Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Changes M		Changes Made		Comments
Date of Changes Made Comments Changes Made C	Date of Changes Made previous are unavailable from 0 to 3 on May 11 2011 3:54PM Date of Changes Made previous are unavailable from MTCA information herarchy (April 2011) and note of unavailable from MTCA information herarchy (April 2011) and note of unavailable from MTCA information herarchy (April 2011) and note of unavailable from 0 to 3 on May 11 2011 3:54PM Date of Changes Made previous 3.E-03 mg/kg-day white the desire of the previous are unavailable from 0 to 3 on May 11 2011 3:54PM Date of Changes Made previous 3.E-03 mg/kg-day white or to be changed to: 3.E-03 mg/kg-day white or to be changed to: 1.7E+02 pg/L Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E-03 pg/L Changed consistent with EPA Region 10 Date of Changes Made previous 4.E	•	1.E-02	mg/kg-day	
Changes Made Changes Made Researched-No Data No Data. What are my options? Researched-No Data extended: Guidance is provided when toxicity values are unavailable from Mich of information his orarchy (April 2011) and note of updated from 0 to 3 on May 11 2011 3:54PM Date of Changes Made Changes Made Comments Changes Made Changed consistent with EPA Region 10 Date of Changes Made Changes Made Changes Made Changes Made Changed consistent with EPA Region 10 Changes Made Changed Changed consistent with EPA Region 10 Changes Made Changed Changed Changed consistent with EPA Region 10	Changes Made Changes Made Changes Made Changes Made Changes Made Researched-No Data No Data. What are my options? Researched-No Data provided when toxicity values are unavailable from M1 Can Information Microarchy (April 2011) and note of updated from 0 to 3 on May 11 2011 3:54PM Date of Change Changes Made Comments Researched-No Data provided when toxicity values are unavailable from M1 Can Information March 2012 (April 2011) and note of updated from 0 to 3 on May 11 2011 3:54PM Changes Made Comments Researched-No Data provided when toxicity values are unavailable from M1 to 3 on May 11 2011 3:54PM Changes Made Comments Changes Made Changed to: 1.1E+01 Researched-No Date of Changes Made Changed consistent with EPA Region 10 Changes Made Changed to: 1.1E+01 Researched-Made Comments Researched-Mad		7.E-03	mg/kg-day	
Changes Made Changes Made Changes Made Changes Made Researched-No Data No Data. What are my options? Researched-No Data available from Mich of information his rearchy (April 2011) and note of updated from 0 to 3 on May 112011 3.54PM Date of Changes Changes Made Comments Researched-No Data available. comments Researched-No Data available from Mich of information his rearchy (April 2011) and note of updated from 0 to 3 on May 112011 3.54PM Changes Made Comments Researched-No Data available. comments Researched-No Data are my options? Reference Dose (RIDo) Changes Made Comments Researched-No Data available. comments Researched-No Data are my options? Reference Dose (RIDo) Comments Researched-No Data are my options? Reference Dose (RIDo) Comments Researched-No Data are my options? Researched-No Data are my options. Researc	Changes Made Changes Made Changes Made Changes Made Changes Made Researched-No Data Researched-Ro No Data What are my options? Researched-No Data Researched-Ro No Data Walled-Rounder Researched-Rounder Researched-Rounder-Rounder-Researched-R			T	
Changes Made previous value: changed to: No Data. What are my options? Researched-No Data are my options? IRIS Researched. No data available. comments, de extended. Guidance is provided when toxicity value are unavailable from MTCA information hisrarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3.54PM Date of Chemical Parameter Change Changes Made previous 3.E-03 Changes Made Date of Chemical Parameter Change Itriditions tricking tricking and tric	Changes Made previous value: changed to: No Data, What are my options? Researched-No Data No Data, What are my options? RIS Researched. No data available, comments, disease extended: Guidance is provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided when toxicity values are unavailable from Mich airch provided with a comments are unavailable from Mich airch provided with the provided water. Changes Made Changed to: 1,75+02 Changes Made Changes		Chemical		Parameter
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changed to: No Data. What are my options? RISR Researched. No data available. comments is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_of updated from 0 to 3 on May 11 2011 3:54PM Date of Change Changes Made Comments Changes M	changed to: No Data. What are my options? RISE Researched. No data sailable, comments of extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note, of updated from 0 to 3 on May 11 2011 3:54PM Date of Change	•	Researched-No Data		
Changes Made	Change 12/22/2008 Octabromodiphenyl eithers Oral Reference Dose (RiDo) Changes Made value:		No Data. What are my options?		extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May
Changes Made	Changes Made previous 3.E-03 mg/kg-day Date of Changes Made changed to: 1.7E+02				
Changes Made previous 3.E-03 mg/kg-day mg/kg-day svalue: changed to: 3.E-03 mg/kg-day Date of Change trichloroethylene Surface Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments changed to: 1.7E+02 pg/L Changed consistent with EPA Region 10 Date of Changes Made Changed trichloroethylene Surface Water, Method B, Carcinogen, Standard Formula Value Changes Made Comments Changes Made Comments Changes Made Comments Changes Made Comments Changed to: 6.7E+00 pg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change Itrichloroethylene Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Comments Changes Made Comments Changes Made Comments Change Made Changed consistent with EPA Region 10 Date of Chemical Parameter Changes Made Comments Changes Made Contact (ingestion only), industrial land use Changes Made Contact (ingestion only), incustricted land use Changes Made Contact (ingestion only), unrestricted land use Changes Made Comments Changes Made Comments	Changes Made previous 3.E-03 mg/kg-day avalue: changed to: 3.E-03 mg/kg-day Date of Change Made Comments Change Made Changed trichloroethylene Surface Water, Method C, Carcinogen, Standard Formula Value Changes Made Changed consistent with EPA Region 10 Date of Changes Made Changed to: 1.7E+02 pg/L Changed consistent with EPA Region 10 Date of Changes Made Changed to: 6.7E+00 pg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Changes Made Comments Changes Made Comments Changed to: 6.7E+00 pg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change Made Comments Changes Made Comments Changes Made Consistent with EPA Region 10 Date of Chemical Parameter Changes Made Consultative Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Change Made Changed to: 1.5E+03 mg/kg Changed consistent with EPA Region 10 Date of Chemical Parameter Changes Made Consultative EPA Region 10 Date of Changes Made Changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Changes Made Changed to: 5.E+00 pg/L Changed consistent with EPA Region 10 Date of Changes Made Changed to: 5.E+00 pg/L Changed consistent with EPA Region 10 Date of Changes Made Changed trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Changed trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Changed trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Changed trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Change Made Changed trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value Change Made Changed trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value Change Made Changed trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value Change Made Changed Chan	Change			
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Date of Change to: 3.E-03	Date of Changes Made changed to: 3.E-03	munida -	_	//	Comments
Date of Changes Made Changed to: Chemical Changes Made Changed to: 1.7E+02	Date of Changes Made changed to: 6.7E+00	value:	3.E-03	mg/kg-day	
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Change 11/3/2008 trichloroethylene Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Comments changed to: 1.5E+03 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter Change Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter Changes Made Comments changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Changes Made Comments Changed consistent with EPA Region 10 Date of Changes Made Changed consistent with EPA Region 10	Change Soil, Method C, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), industrial land use Changes Made Comments Changed to: 1.5E+03 Changed Consistent with EPA Region 10 Date of Change Chemical Parameter Parameter Change Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Chemical Parameter Changes Made Comments Changes Made Comments Changes Made Comments Changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change Chemical Parameter Change Chemical Change Parameter Change Change	changed to:			
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Changes Made changed to: 1.5E+03 Changed consistent with EPA Region 10 Change Change Chemical Change Trichloroethylene Changes Made Changes Made Changes Made Changed consistent with EPA Region 10 Changes Made Changes Made Changed consistent with EPA Region 10 Changes Made Changed consistent with EPA Region 10 Changes Made Changed consistent with EPA Region 10 Change Changes Made Change Changes Made Changes Made Changes Made Changes Made Changes Made Changed consistent with EPA Region 10 Changes Made Changes Made Changed consistent with EPA Region 10 Changes Made Changed consistent with EPA Region 10	Changes Made Changed to: 1.5E+03 mg/kg Changed consistent with EPA Region 10 Date of Change 11/3/2008 trichloroethylene Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Change mg/kg Changed consistent with EPA Region 10 Date of Change Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Change to: 5.E+00 µg/L Changed consistent with EPA Region 10 Date of Changes Made Changed to: 5.E+00 Farameter Change Ground Water, Method C, Carcinogen, Standard Formula Value Change Ground Water, Method B, Carcinogen, Standard Formula Value Date of Chemical Farameter Change Ground Water, Method B, Carcinogen, Standard Formula Value		trichloroethylene		
Changed to: 1.5E+03 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter 11/3/2008 trichloroethylene Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Chemical Parameter Changes Made Comments changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Chemical Parameter Date of Change Chemical Parameter Change Chemical Parameter Change	Changed to: 1.5E+03 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter 11/3/2008 trichloroethylene Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments Changed downsistent with EPA Region 10 Date of Chemical Parameter Change Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments Changed to: 5.E+00 Date of Chemical Parameter Change Parameter Change Chemical Change Changed consistent with EPA Region 10 Date of Chemical Parameter Change Chemical		Changes Made		
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Change Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments Changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter Changes Made Comments Changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Chemical Parameter Change Parameter	Change 11/3/2008 trichloroethylene Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use Changes Made Comments changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter Changes Made Comments Changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Chemical Parameter Change Chemical Parameter Change Chemical Chemical Change	Date of	Chemical		Parameter
Changes Made Changed to: 1.1E+01 Chemical Change Change Chemical Change	Changes Made Changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Change C	Change		Soil Matter	
Changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter 11/3/2008 trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Chemical Parameter	Changed to: 1.1E+01 mg/kg Changed consistent with EPA Region 10 Date of Change Chemical Parameter 11/3/2008 trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments Changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Chemical Parameter Change Trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value	1 1/3/2UU8	unchioroeuriyiene		
Date of Change Chemical Parameter 11/3/2008 trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Parameter Change Parameter	Date of Change Chemical Parameter 11/3/2008 trichloroethylene Ground Water, Method C, Carcinogen, Standard Formula Value Changes Made Comments changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Change Chemical Parameter 11/3/2008 trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value	ohonged 4:		m = /1	
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That is a second water of the second water of	This is a second water, Method C, Carcinogen, Standard Formula Value Changes Made		Chemical		Parameter
changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change	changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change 11/3/2008 trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value		trichloroethylene	Ground Wate	er, Method C, Carcinogen, Standard Formula Value
changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change	changed to: 5.E+00 μg/L Changed consistent with EPA Region 10 Date of Chemical Parameter Change 11/3/2008 trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value		Changes Made		Comments
Change	Change 11/3/2008 trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value	changed to:	-	μg/L	
Change	Change 11/3/2008 trichloroethylene Ground Water, Method B, Carcinogen, Standard Formula Value	Date of	Chemical	_	Parameter
Ground Water, Method B, Carcinogen, Standard Formula Value		Change		Oracio d Marc	
	Changes Made Comments	11/3/2008	tricnioroetnylene	Ground Wate	er, ivietnod B, Carcinogen, Standard Formula Value

changed to:	4.9E-01	μg/L	Changed consistent with EPA Region 10
Date of Change	Chemical		Parameter
11/3/2008	trichloroethylene	Air, Method	C, Carcinogen, Standard Formula Value
changed to:	Changes Made 1.E+00	μg/m3	Comments Changed consistent with EPA Region 10
Date of Change	Chemical		Parameter
11/3/2008	trichloroethylene	Air, Method	B, Carcinogen, Standard Formula Value
	Changes Made		Comments
changed to:	1.E-01	μg/m3	Changed consistent with EPA Region 10
Date of Change	Chemical		Parameter
11/3/2008	trichloroethylene	Inhalation C	Cancer Potency Factor (CPFi)
changed to:	Changes Made 8.9E-02	kg-day/mg	Comments Changed consistent with EPA Region 10
Date of	Chemical		Parameter
Change 11/3/2008	trichloroethylene	Oral Cancer	r Potency Factor (CPFo)
changed to:	Changes Made 8.9E-02	kg-day/mg	Comments Changed consistent with EPA Region 10
Date of	Chemical		Parameter
Change 9/19/2008	xylene;o-	Oral Refere	nce Dose (RfDo)
3/13/2000	xylene,0-	Olai Kelele	ince Dose (KiDo)
previous	Changes Made 2.E+00	mg/kg-day	Comments
value: changed to:	Researched-No Data	mg/kg day	Xylene occurs in the environment as a mixture of o-, m-, p- xylene. Refer to xylenes (CAS 1330-20-7) for cleanup information
Date of Change	Chemical		Parameter
9/19/2008	xylene;m-	Oral Refere	nce Dose (RfDo)
previous value:	Changes Made 2.E+00	mg/kg-day	Comments
changed to:	Researched-No Data		Xylene occurs in the environment as a mixture of o-,m-, p- xylene. Refer to xylenes (CAS 1330-20-7) for cleanup information.
Date of	Chemical		Parameter Parame
Change 9/19/2008	methyl naphthalene;1-	Oral Refere	nce Dose (RfDo)
0,10,2000		<u> </u>	
previous	Changes Made 3.E-04	mg/kg-day	Comments
value: changed to:	No Data. What are my options?	mg, kg-uay	Toxicity is accounted for in the aromatic TPH fraction greater than EC10 to EC12 with an oral RfD of .02 mg/kg-day. comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_c updated from 0 to 3 on May 11 2011 3:54PM
Date of Change	Chemical		Parameter
8/14/2008	rdx	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	Researched-No Data		
value:			

Date of	Chemical		Parameter
Change 8/14/2008	rdx		ater, Method B, Non-carcinogen, Standard Formula
		Value	
provious	Changes Ma	de	Comments
previous value:	Researched-No Data		
changed to:	4.8E+01	μg/L	Revised INH Factor based on HSDB database
Date of	Chemical		Parameter
Change		0 114	
8/14/2008	rdx	Ground W	ater, Method B, Carcinogen, Standard Formula Value
•	Changes Ma	de	Comments
previous value:	Researched-No Data		
changed to:	8.E-01	μg/L	Revised INH Factor based on HSDB database
Date of	Chemical		Parameter
Change	Chemical		raidilletei
8/14/2008	rdx	Ground W	ater, Method C, Carcinogen, Standard Formula Value
	Changes Ma	de	Comments
previous value:	Researched-No Data		
changed to:	8.E+00	μg/L	Revised INH Factor based on HSDB database
Date of	Chemical		Parameter
Change 8/14/2008	rdx	Inhalation	Correction Factor (INH)
S/ 1 1/ 2000		'	
previous	Changes Ma Researched-No Data	de	Comments
value:			
changed to:	1.E+00	unitless	Based on revised HSDB data
Date of	Chemical		Parameter
Change 8/14/2008	and desired in south a	Cail Math	ad C. Nan agains and Chardead Faranta Value Direct
0/14/2006	cadmium in water		od C, Non-carcinogen, Standard Fomula Value, Direct ngestion only), industrial land use
	Changes Ma	de	Comments
previous value:	1.8E+03	mg/kg	
changed to:	0.E+00	mg/kg	See cadmium in soil
Date of	Chemical		Parameter
Change 8/14/2008	cadmium in water	Soil. Meth	od B, Non-carcinogen, Standard Formula Value, Direct
			ngestion only), unrestricted land use
	Changes Ma	de	Comments
previous value:	4.E+01	mg/kg	
changed to:	0.E+00	mg/kg	See cadmium in soil
Date of Change	Chemical		Parameter
_	cadmium in soil	Surface W Value	ater, Method C, Non-Carcinogen, Standard Formula
8/14/2008		* WILL	
8/14/2008	Changes He	<u> </u>	Comments
	Changes Ma	de	Comments
previous value:	1.E+02	de μg/L	
previous value:		de	Comments See cadmium in water
previous value: changed to:	1.E+02 0.E+00	de μg/L	See cadmium in water
previous	1.E+02	de μg/L	
previous value: changed to: Date of Change	1.E+02 0.E+00	de μg/L μg/L	See cadmium in water
previous value: changed to: Date of Change	1.E+02 0.E+00 Chemical cadmium in soil	de μg/L μg/L Surface W Value	See cadmium in water Parameter ater, Method B, Non-Carcinogen, Standard Formula
previous value: changed to:	1.E+02 0.E+00 Chemical	de μg/L μg/L Surface W Value	See cadmium in water Parameter

Date of	Chemical		Parameter
Change 8/14/2008	cadmium in soil	Ground Wat	ter, Method B, Non-carcinogen, Standard Formula
		Value	, , , , , , , , , , , , , , , , , , , ,
	Changes Mad	е	Comments
previous value:	1.6E+01	μg/L	
changed to:	0.E+00	μg/L	See cadmium in water
Date of Change	Chemical		Parameter
8/14/2008	cadmium in soil	Ground Wat Value	ter, Method C, Non-carcinogen, Standard Formula
	Changes Mad	e	Comments
previous	3.5E+01	μg/L	
value: changed to:	0.E+00	μg/L	See cadmium in water
Date of Change	Chemical		Parameter
8/14/2008	dichloroethylene;1,2-,cis	Inhalation R	eference Dose (RfDi)
	Changes Mad	e	Comments
previous value:	Researched-No Data		
changed to:	1.E-02	mg/kg-day	
Date of Change	Chemical		Parameter
8/14/2008	dichloroethane;1,1-	Ground Wat	ter, Method C, Non-carcinogen, Standard Formula
	Changes Mad		Comments
previous	1.8E+03	μg/L	Comments
value: changed to:	3.5E+03	μg/L	
onangoa to.	3.32 1 03	μ9/ L	
Date of	Chemical		Parameter
Change 8/14/2008	dichloroethane;1,1-	Ground Wat	ter, Method B, Non-carcinogen, Standard Formula
0/11/2000	diomorocation, 1, 1	Value	or, mounda 2, rem carolinegen, ciandara i emilia
	Changes Mad	е	Comments
previous value:	8.E+02	μg/L	
changed to:	1.6E+03	μg/L	
Date of Change	Chemical		Parameter
8/14/2008	dichloroethane;1,1-		d C, Non-carcinogen, Standard Fomula Value, Direct
		· -	estion only), industrial land use
previous	Changes Mad 3.5E+05	e mg/kg	Comments
value:			
changed to:	7.E+05	mg/kg	
Date of	Chemical		Parameter
Change 8/14/2008	dichloroethane;1,1-	Soil Method	d B, Non-carcinogen, Standard Formula Value, Direct
O/ 17/2000	alonioroeurane, i , i -		pestion only), unrestricted land use
	Changes Mad	е	Comments
previous value:	8.E+03	mg/kg	
changed to:	1.6E+04	mg/kg	
Date of	Chemical		Parameter
Change 8/14/2008	dichloroethane;1,1-	Air. Method	C, Non-carcinogen, Standard Formula Value

previous	3.5E+02	μg/m3	
value: changed to:	7.E+02	μg/m3	
oriariged to.	7.1.102	руппэ	
Date of	Chemical		Doromotor
Change	Cnemical		Parameter
8/14/2008	dichloroethane;1,1-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changas Mada		Comments
orevious	Changes Made 1.6E+02	μg/m3	Comments
value:			
changed to:	3.2E+02	μg/m3	
Date of Change	Chemical		Parameter
8/14/2008	dichloroethane;1,1-	Oral Refere	nce Dose (RfDo)
orevious	Changes Made	mg/kg-day	Comments
value:		ilig/kg-day	
changed to:	2.E-01	mg/kg-day	
Date of	Chemical		Parameter
Change 3/14/2008	dichloroethane;1,1-	Inhalation P	eference Dose (RfDi)
J, 1 7/ 2000	diomoroditatio, 1, 1	minalation K	CICIONO DOGO (MDI)
	Changes Made	,, ·	Comments
orevious ⁄alue:	1.E-01	mg/kg-day	
changed to:	2.E-01	mg/kg-day	
Date of	Chemical		Parameter
Change	diable restby less at 4	Ovel Conser	Potonov Footor (CDFo)
4/28/2008	dichloroethylene;1,1-	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
2			
	6.E-01	kg-day/mg	
value:	6.E-01 No Data. What are my options?	kg-day/mg	
value: changed to:	No Data. What are my options?	kg-day/mg	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
value: changed to: Date of		kg-day/mg	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to
value: changed to: Date of Change	No Data. What are my options?		comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
value: changed to: Date of Change	No Data. What are my options? Chemical dichloroethylene;1,1-		comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi)
value: changed to: Date of Change 4/28/2008	Chemical dichloroethylene;1,1- Changes Made	Inhalation C	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter
previous value: changed to: Date of Change 4/28/2008 previous value: changed to:	No Data. What are my options? Chemical dichloroethylene;1,1-		comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information
Date of Change 4/28/2008	Chemical dichloroethylene;1,1- Changes Made 1.8E-01	Inhalation C	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to
Date of Change 4/28/2008 Drevious value: Changed to:	Chemical dichloroethylene;1,1- Changes Made 1.8E-01	Inhalation C	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to
Date of Changed to: Oate of Change 1/28/2008 Orevious Value: Changed to: Oate of Change	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical	Inhalation C	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter
Date of Changed to: Oate of Change 1/28/2008 Orevious Value: Changed to: Oate of Change	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options?	Inhalation C	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM
Palue: Changed to: Date of Change W/28/2008 Date of Change Changed to: Changed to: Changed to: Change	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made	Inhalation C kg-day/mg Air, Method	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter
Date of Changed to: Date of Change 1/28/2008 Date of Change to: Date of Change to: Date of Change 1/2/2008	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8-	Inhalation C	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value
Date of Change to:	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made	Inhalation C kg-day/mg Air, Method	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value
Date of Change to: Date of Change to:	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information	Inhalation C kg-day/mg Air, Method μg/m3	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments
Date of Change 4/28/2008 Date of Change 4/28/2008 Date of Change to: Change to: Date of Change to: Change to: Note: Click here to evaluations.	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information	Inhalation C kg-day/mg Air, Method μg/m3	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments
Date of Change 4/28/2008 Date of Change 4/28/2008 Date of Change 4/2/2008 Date of Change 4/2/2008 Date of Change 4/2/2008 Date of Change 4/2/2008 Date of Change 5/2 Change 6/2 Change 6/2 Change 6/2 Change	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information review CLARC Guidance for toxicity equivalents.	Inhalation C kg-day/mg Air, Method µg/m3	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments en congener-specific analysis is conducted for site-specific
Changed to: Change Change A/28/2008 Change	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information review CLARC Guidance for toxicity equivalents.	Inhalation C kg-day/mg Air, Method µg/m3	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments en congener-specific analysis is conducted for site-specific
Date of Change 4/28/2008 Date of Change 4/28/2008 Date of Change 4/2/2008 Date of Change 4/2/2008 Date of Change 4/2/2008 Date of Change 4/2/2008 Date of Change 5/2 Change 6/2 Change 6/2 Change 6/2 Change	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information review CLARC Guidance for toxicity equivalents.	Inhalation C kg-day/mg Air, Method µg/m3	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments en congener-specific analysis is conducted for site-specific
Date of Change 4/28/2008 Date of Change 4/28/2008 Date of Change 4/2/2008	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information review CLARC Guidance for toxicity equivalence of toxicity eq	Inhalation C kg-day/mg Air, Method µg/m3	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments en congener-specific analysis is conducted for site-specific Parameter B, Carcinogen, Standard Formula Value
Date of Change 4/28/2008 Date of Change 4/28/2008 Date of Change to: Date of Change to: Change to:	Chemical dichloroethylene;1,1- Changes Made 1.8E-01 No Data. What are my options? Chemical tcdd;2,3,7,8- Changes Made 5.8E-07 see additional information review CLARC Guidance for toxicity equivalence of tcdd;2,3,7,8- Chemical tcdd;2,3,7,8- Changes Made	Inhalation C kg-day/mg Air, Method µg/m3 Air, Method	comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter ancer Potency Factor (CPFi) Comments Updated to correspond to IRIS for toxicity values comments_ds extended: Guidance is provided when toxicity values are unavailable from MTCA information hierarchy (April 2011) and note_cd updated from 0 to 3 on May 11 2011 3:53PM Parameter C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments en congener-specific analysis is conducted for site-specific Parameter B, Carcinogen, Standard Formula Value

Date of	Chemical		Parameter	
hange /2/2008	tcdd;2,3,7,8-	Surface V	Surface Water, Method C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
revious	2.2E-07	μg/L	Comments	
alue: hanged to:	see additional information		Updated to reflect MTCA rule amendments	
		uivalency factors	when congener-specific analysis is conducted for site-specific	
valuations.	Treview de Arto duidance for toxidity eq	uivalency factors	when congener specific analysis is conducted for site specific	
Date of	Chemical		Parameter	
Change 1/2/2008	tcdd;2,3,7,8-	Surface V	Vater, Method B, Carcinogen, Standard Formula Value	
	Changes Made)	Comments	
orevious value:	8.6E-09	μg/L		
changed to:	see additional information		Updated to reflect MTCA rule amendments	
Note: Click here to	o review CLARC Guidance for toxicity eq	uivalency factors	when congener-specific analysis is conducted for site-specific	
Date of	Chemical		Parameter	
Change				
1/2/2008	tcdd;2,3,7,8-	Ground V	/ater, Method C, Carcinogen, Standard Formula Value	
	Changes Made		Comments	
revious alue:	5.8E-06	μg/L		
hanged to:	see additional information		Updated to reflect MTCA rule amendments	
lote: Click here to valuations.	o review CLARC Guidance for toxicity eq	uivalency factors	when congener-specific analysis is conducted for site-specific	
Date of	Chemical		Parameter	
Change 1/2/2008	tcdd;2,3,7,8-	Ground M	/ater, Method B, Carcinogen, Standard Formula Value	
2/2006	tcaa,2,3,7,6-	Glound	vater, Metriod B, Carcinogeri, Standard Formula Valde	
revious	Changes Made 5.8E-07		Comments	
alue:		μg/L		
hanged to:	see additional information		Updated to reflect MTCA rule amendments	
ote: Click here to valuations.	review CLARC Guidance for toxicity ed	uivalency factors	when congener-specific analysis is conducted for site-specific	
Date of	Chemical		Parameter	
Change 1/2/2008	benzo[a]anthracene	Surface V	Vater, Method C, Carcinogen, Standard Formula Value	
72,2000		'		
previous	Changes Made 7.4E-01	μg/L	Comments	
value: changed to:	see additional information	F 31 =	Updated to reflect MTCA rule amendments	
Note: Click here to evaluations.	o review CLARC Guidance for toxicity ed	uivalency factors	when congener-specific analysis is conducted for site-specific	
Date of	Chemical		Parameter	
Change 4/2/2008	benzo[a]anthracene	Surface V	Vater, Method B, Carcinogen, Standard Formula Value	
	Changes Made	'	Comments	
revious	3.E-02	μg/L	Comments	
value: changed to:	see additional information		Updated to reflect MTCA rule amendments	
-		uivalency factors	when congener-specific analysis is conducted for site-specific	
valuations.				
Date of Change	Chemical		Parameter	
mange	benzo[a]anthracene	Ground V	ater, Method C, Carcinogen, Standard Formula Value	
	Changes Made	•	Comments	
	Orianges made			
1/2/2008 previous	1.2E-01	μg/L		
1/2/2008		µу/∟	Updated to reflect MTCA rule amendments	
brevious value: changed to:	1.2E-01 see additional information		Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific	
revious alue: hanged to:	1.2E-01 see additional information		·	

4/2/2008	benzo[a]anthracene	Ground \	Water, Method B, Carcinogen, Standard Formula Value
	Changes Made	!	Comments
previous	1.2E-02	μg/L	
value: changed to:	see additional information		Updated to reflect MTCA rule amendments
_			·
Note: Click here to evaluations.	review CLARC Guidance for toxicity eq	uivalency factor	s when congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	F1.70		
4/2/2008	benzo[b]fluoranthene	Surface	Water, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	7.4E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments
	review CLARC Guidance for toxicity eq	uivalency factor	s when congener-specific analysis is conducted for site-specific
evaluations.			
Date of Change	Chemical		Parameter
4/2/2008	benzo[b]fluoranthene	Surface '	Water, Method B, Carcinogen, Standard Formula Value
	Ohammaa Mada		Comments
previous	Changes Made 3.E-02	μg/L	Comments
value: changed to:	see additional information	1 3/	Updated to reflect MTCA rule amendments
changed to.	see additional information		Opuated to reflect for too rule afficilitients
Note: Click here to evaluations.	review CLARC Guidance for toxicity equ	uivalency factor	s when congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	Officialical		i diametei
4/2/2008	benzo[b]fluoranthene	Ground \	Water, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	1.2E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to	review CLARC Guidance for toxicity equ	uivalency factor	s when congener-specific analysis is conducted for site-specific
evaluations.			
Date of	Chemical		Parameter
Change 4/2/2008	benzo[b]fluoranthene	Ground \	Water, Method B, Carcinogen, Standard Formula Value
	Ol annua Mark	1	0
previous	Changes Made 1.2E-02	μg/L	Comments
value:	see additional information	F 3,	Updated to reflect MTCA rule amendments
changed to:	see additional information		Opuated to reflect in FOA rule afficients
Note: Click here to evaluations.	review CLARC Guidance for toxicity equ	uivalency factor	s when congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	Olientical		Faranietei
4/2/2008	benzo[k]fluoranthene	Surface '	Water, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	7.4E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to	review CLARC Guidance for toxicity eq	uivalencv factor	s when congener-specific analysis is conducted for site-specific
evaluations.			
Date of	Chemical		Parameter
Change 4/2/2008	benzo[k]fluoranthene	Surface	Water, Method B, Carcinogen, Standard Formula Value
., _, _ 000		<u> </u>	
orevious	Changes Made		Comments
orevious value:	3.E-02	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments
	review CLARC Guidance for toxicity eq	uivalency factor	s when congener-specific analysis is conducted for site-specific
evaluations.			
Date of Change	Chemical		Parameter

Changes Made	Comments

benzo[k]fluoranthene

4/2/2008

Ground Water, Method C, Carcinogen, Standard Formula Value

previous	1.2E-01	μg/L	
value: changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to evaluations.	o review CLARC Guidance for toxicity eq	uivalency factor	s when congener-specific analysis is conducted for site-specific
Date of Change	Chemical		Parameter
4/2/2008	benzo[k]fluoranthene	Ground \	Water, Method B, Carcinogen, Standard Formula Value
	Changes Made	:	Comments
previous value:	1.2E-02	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to evaluations.	o review CLARC Guidance for toxicity eq	uivalency factor	s when congener-specific analysis is conducted for site-specific
Note: Click here to evaluations. Date of Change		· ·	s when congener-specific analysis is conducted for site-specific Parameter
Note: Click here to evaluations. Date of Change	Chemical chrysene	Surface '	Parameter Water, Method C, Carcinogen, Standard Formula Value
Note: Click here to evaluations. Date of Change 4/2/2008	c review CLARC Guidance for toxicity equation of the control of th	Surface '	s when congener-specific analysis is conducted for site-specific Parameter
Note: Click here to evaluations. Date of Change 4/2/2008 previous value:	Chemical chrysene Changes Made	Surface \(\)	Parameter Water, Method C, Carcinogen, Standard Formula Value
Note: Click here to evaluations. Date of Change 4/2/2008 previous value: changed to:	Chemical Changes Made 7.4E-01 see additional information	Surface v	Parameter Water, Method C, Carcinogen, Standard Formula Value Comments
Note: Click here to evaluations. Date of Change 4/2/2008 previous value: changed to:	Chemical Changes Made 7.4E-01 see additional information	Surface v	Parameter Water, Method C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments
Note: Click here to evaluations. Date of Change 4/2/2008 previous value: changed to: Note: Click here to evaluations. Date of Change	Chemical Changes Made 7.4E-01 see additional information o review CLARC Guidance for toxicity equations of the content of t	Surface 's µg/L uivalency factor	Parameter Water, Method C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments s when congener-specific analysis is conducted for site-specific
Note: Click here to evaluations. Date of Change 4/2/2008 previous value: changed to: Note: Click here to evaluations. Date of Change	Chemical Changes Made 7.4E-01 see additional information or review CLARC Guidance for toxicity equations of the control of t	Surface \(\text{pg/L} \) uivalency factor Surface \(\text{V} \)	Parameter Water, Method C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments s when congener-specific analysis is conducted for site-specific Parameter
Note: Click here to evaluations. Date of Change 4/2/2008 previous value: changed to: Note: Click here to evaluations.	Chemical Changes Made 7.4E-01 see additional information or review CLARC Guidance for toxicity equations of the content of t	Surface \(\text{pg/L} \) uivalency factor Surface \(\text{V} \)	Parameter Water, Method C, Carcinogen, Standard Formula Value Comments Updated to reflect MTCA rule amendments s when congener-specific analysis is conducted for site-specific Parameter Water, Method B, Carcinogen, Standard Formula Value

Date of Change	Chemical	Parameter
4/2/2008	chrysene	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.2E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	chrysene	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.2E-02	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	dibenzo[a,h]anthracene	Surface Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	7.4E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	dibenzo[a,h]anthracene	Surface Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous	3.E-02	μg/L	

Note: Click here t	o review CLARC Guidance for toxicity equivalend	by factors when congener-specific analysis is conducted for site-specific
changed to:	see additional information	Updated to reflect MTCA rule amendments
value:	1.00	

Date of Change	Chemical	Parameter
4/2/2008	dibenzo[a,h]anthracene	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.2E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	dibenzo[a,h]anthracene	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.2E-02	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	Hexachlorodibenzo-p-dioxin, Mixture	Air, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.9E-05	μg/m3	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	Hexachlorodibenzo-p-dioxin, Mixture	Air, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.9E-06	μg/m3	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	indeno[1,2,3-cd]pyrene	Ground Water, Method B, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.2E-02	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of Change	Chemical	Parameter
4/2/2008	indeno[1,2,3-cd]pyrene	Ground Water, Method C, Carcinogen, Standard Formula Value

	Changes Made		Comments
previous value:	1.2E-01	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments

Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations.

Date of	Chemical	Parameter
Change		

4/2/2008	indeno[1,2,3-cd]pyrene	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	3.E-02	μg/L	
changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to evaluations.	review CLARC Guidance for toxicity equi	valency factors wh	nen congener-specific analysis is conducted for site-specific
Date of Change	Chemical		Parameter
4/2/2008	indeno[1,2,3-cd]pyrene	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	7.4E-01	μg/L	Comments
value: changed to:	see additional information		Updated to reflect MTCA rule amendments
		valency factors wh	nen congener-specific analysis is conducted for site-specific
evaluations.	Teview CLARC Guidance for toxicity equi	valency factors wi	ien congener-specific analysis is conducted for site-specific
Date of Change	Chemical		Parameter
4/2/2008	gross alpha particle activity	Ground Wat	ter, Method A, Table Value
	Changes Made		Comments
previous	1.5E+01	pCi/L	
value: changed to:	1.5E+01		Radionuclides with different Unit of Measure than
Gross alpha partic	e activity and radium 226 and 228 values	are in pCi/L	parameter
Date of Change	Chemical		Parameter
4/2/2008	gross beta particle activity	Ground Wat	ter, Method A, Table Value
	Changes Made		Comments
previous value:	4.E+00	mrem/year	
changed to:	4.E+00		Radionuclides with different Unit of Measure than parameter
Gross beta particle	activity values are in mrem/year		
Date of	Chemical		Parameter
Change			
4/2/2008		0 1114	
4/ <i>L</i> / <i>L</i> 000	pah	Ground Wat	ter, Method A, Table Value
	Changes Made	Ground Wat	Comments
previous value:		Ground Wat	
previous value:	Changes Made	Ground Wat	Comments
previous value: changed to:	Changes Made Researched-No Data Researched-No Data	Ground Wat	Comments see benzo(a)pyrene
previous value: changed to: Date of Change	Changes Made Researched-No Data Researched-No Data Chemical		Comments see benzo(a)pyrene Parameter
previous value: changed to: Date of Change	Changes Made Researched-No Data Researched-No Data Chemical radium 226		Comments see benzo(a)pyrene Parameter ter, Method A, Table Value
previous value: changed to: Date of Change 4/2/2008	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made	Ground Wat	Comments see benzo(a)pyrene Parameter
previous value: changed to: Date of Change 4/2/2008 previous value:	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00		Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments
previous value: changed to: Date of Change 4/2/2008 previous value: changed to:	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00	Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 activity and radium 226 and 228 values	Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00	Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 activity and radium 226 and 228 values	pCi/L are in pCi/L	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 chemical chemical radium 226 and 228 values radium 226 and 228	pCi/L are in pCi/L	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter Parameter ter, Method A, Table Value
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change 4/2/2008	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 e activity and radium 226 and 228 values Chemical	pCi/L are in pCi/L	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter Parameter
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change 4/2/2008	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 e activity and radium 226 and 228 values Chemical radium 226 and 228 Changes Made 5.E+00	pCi/L are in pCi/L Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter Parameter ter, Method A, Table Value
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change 4/2/2008 previous value: changed to:	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 e activity and radium 226 and 228 values Chemical radium 226 and 228 Changes Made 5.E+00 5.E+00	pCi/L are in pCi/L Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter Parameter ter, Method A, Table Value Comments Comments
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change 4/2/2008 previous value: change 4/2/2008	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 e activity and radium 226 and 228 values Chemical radium 226 and 228 Changes Made 5.E+00 5.E+00 e activity and radium 226 and 228 values	pCi/L are in pCi/L Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter
previous value: changed to: Date of Change 4/2/2008 previous value: changed to: Gross alpha partic Date of Change 4/2/2008 previous value: changed to:	Changes Made Researched-No Data Researched-No Data Chemical radium 226 Changes Made 3.E+00 3.E+00 e activity and radium 226 and 228 values Chemical radium 226 and 228 Changes Made 5.E+00 5.E+00	pCi/L are in pCi/L Ground Wat	Comments see benzo(a)pyrene Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter Parameter ter, Method A, Table Value Comments Radionuclides with different Unit of Measure than parameter

	Changes Made		Comments
previous	5.E+00	pCi/L	
value: changed to:	5.E+00		Radionuclides with different Unit of Measure than
Gross alpha partic	cle activity and radium 226 and 228 values	are in pCi/L	parameter
Date of	Chemical		Parameter
Change	areas hate portiols activity	Cround Ma	ADAD Fodoral Drimery Maying an Contaminant
4/2/2008	gross beta particle activity	Level (MCL)	ter ARAR - Federal Primary Maximum Contaminant
	Changes Made		Comments
previous value:	4.E+00	mrem/year	
changed to:	4.E+00		Radionuclides with different Unit of Measure than
Gross beta particl	e activity values are in mrem/year		parameter
Date of	Chemical		Parameter
Change 4/2/2008	radium 226 and 228	Ground Wat	ter ARAR - Federal Primary Maximum Contaminant
4/2/2006	Tadium 220 and 220	Level (MCL)	
	Changes Made		Comments
previous	5.E+00	pCi/L	
value: changed to:	5.E+00		Radionuclides with different Unit of Measure than
Gross alpha partic	le activity and radium 226 and 228 values	are in pCi/L	parameter
Date of	Chemical		Parameter
Change 4/1/2008	dichloroethylene:1.1	Air Mathad	C Non-carcinogen Standard Formula Value
4/ I/ZUUÖ	dichloroethylene;1,1-	Aii, ivietnod	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	2.E+02	μg/m3	Updated to correspond to IRIS for toxicity values
Date of	Chemical		Parameter
Change			
	dichloroethylene;1,1-	Air, Method	B, Non-Carcinogen, Standard Formula Value
4/1/2008 previous	dichloroethylene;1,1- Changes Made Researched-No Data	Air, Method	
4/1/2008 previous value:	Changes Made		B, Non-Carcinogen, Standard Formula Value
4/1/2008 previous value:	Changes Made Researched-No Data	Air, Method	B, Non-Carcinogen, Standard Formula Value Comments
4/1/2008 previous value: changed to: Date of	Changes Made Researched-No Data		B, Non-Carcinogen, Standard Formula Value Comments
previous value: changed to: Date of Change	Changes Made Researched-No Data 9.1E+01 Chemical	µg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter
previous value: changed to: Date of Change	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1-	µg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical	µg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter
previous value: changed to: Date of Change 4/1/2008 previous value:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made	μg/m3 Air, Method	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/1/2008 previous value:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01	μg/m3 Air, Method	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01	μg/m3 Air, Method	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data	μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1-	μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made	μg/m3 Air, Method μg/m3 Air, Method	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1-	μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value
Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made	μg/m3 Air, Method μg/m3 Air, Method	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02	μg/m3 Air, Method μg/m3 Air, Method	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Comments
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data Chemical Changes Made 5.E-02 Chemical	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter Updated to correspond to IRIS for toxicity values
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: previous value: change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Updated to correspond to IRIS for toxicity values
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data Chemical Changes Made 5.E-02 Chemical	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value, Direct
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data Chemical dichloroethylene;1,1-	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to:	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 2.2E+02	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Comments Comments Comments Comments
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Chemical Chemical	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use
previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	Changes Made Researched-No Data 9.1E+01 Chemical dichloroethylene;1,1- Changes Made 5.E-01 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 5.E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made 2.2E+02	μg/m3 Air, Method μg/m3 Air, Method μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter B, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Parameter C, Carcinogen, Standard Formula Value Comments Updated to correspond to IRIS for toxicity values Comments Comments Comments Comments

	dichloroethylene;1,1-		d B, Carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous	1.7E+00	mg/kg	
value: changed to:	Researched-No Data		Updated to correspond to IRIS for toxicity values
Data of	Chemical		Danamatan
Date of Change			Parameter
4/1/2008	dichloroethylene;1,1-	Surface Wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	4.8E+01	μg/L	
changed to:	Researched-No Data		Updated to correspond to IRIS for toxicity values
Date of	Chemical		Parameter
Change			
4/1/2008	dichloroethylene;1,1-	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
previous	Changes Made 1.9E+00	μg/L	Comments
value:		P9/ L	Hadatada
changed to:	Researched-No Data		Updated to correspond to IRIS for toxicity values
Date of	Chemical		Parameter
Change			
4/1/2008	dichloroethylene;1,1-	Ground Wat	ter, Method C, Carcinogen, Standard Formula Value
previous	Changes Made 7.3E-01	μg/L	Comments
value: changed to:	Researched-No Data	- 1E	Updated to correspond to IRIS for toxicity values
onangeu to.	NESCALLIEU-INO DALA		opuated to correspond to INIS for toxicity values
Date of	Chemical		Parameter
Change 4/1/2008	diablaraathylana:1.1	Cround Wat	ter, Method B, Carcinogen, Standard Formula Value
4/1/2006	dichloroethylene;1,1-	Ground war	er, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
•			
previous value:	7.3E-02	μg/L	
		μg/L	Updated to correspond to IRIS for toxicity values
value: changed to:	7.3E-02 Researched-No Data	μg/L	Updated to correspond to IRIS for toxicity values
value: changed to: Date of Change	7.3E-02 Researched-No Data Chemical		Updated to correspond to IRIS for toxicity values Parameter
value: changed to:	7.3E-02 Researched-No Data		Updated to correspond to IRIS for toxicity values
value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made		Updated to correspond to IRIS for toxicity values Parameter
value: changed to: Date of Change 4/1/2008 previous value:	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data	Inhalation R	Updated to correspond to IRIS for toxicity values Parameter eference Dose (RfDi) Comments
value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made		Updated to correspond to IRIS for toxicity values Parameter eference Dose (RfDi)
value: changed to: Date of Change 4/1/2008 previous value: changed to:	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02	Inhalation R	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical	Inhalation R	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02	Inhalation R	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6-	Inhalation R	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi)
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical	Inhalation R	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6-	Inhalation R mg/kg-day Inhalation C	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi)
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 6.8E-01	Inhalation R mg/kg-day Inhalation C	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi)
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 6.8E-01	Inhalation R mg/kg-day Inhalation C	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi)
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 6.8E-01 6.8E-01	Inhalation R mg/kg-day Inhalation C kg-day/mg kg-day/mg Soil, Method	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi) Comments Comments Comments Comments
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 6.8E-01 Chemical Hexachlorodibenzo-p-dioxin, Mixture	Inhalation R mg/kg-day Inhalation C kg-day/mg kg-day/mg Soil, Method	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi) Comments Comments Comments Comments
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 6.8E-01 Chemical Hexachlorodibenzo-p-dioxin,	Inhalation R mg/kg-day Inhalation C kg-day/mg kg-day/mg Soil, Method	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi) Comments Comments Comments Comments
value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 4/1/2008 previous value: changed to: Date of Change 11/6/2007	7.3E-02 Researched-No Data Chemical dichloroethylene;1,1- Changes Made Researched-No Data 5.7E-02 Chemical dinitrotoluene mixture;2,4-/2,6- Changes Made 6.8E-01 Chemical Hexachlorodibenzo-p-dioxin, Mixture Changes Made	Inhalation R mg/kg-day Inhalation C kg-day/mg kg-day/mg Soil, Method Contact (ing	Parameter eference Dose (RfDi) Comments Updated to correspond to IRIS for toxicity values Parameter ancer Potency Factor (CPFi) Comments Comments Comments Comments

Date of Change	Chemical		Parameter
11/6/2007	Hexachlorodibenzo-p-dioxin, Mixture		d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
	Changes Made		Comments
previous value:	1.6E-04	mg/kg	
changed to:	see additional information	Updated to reflect MTCA rule amendments	
Note: Click here tevaluations.	o review CLARC Guidance for toxicity equiv	valency factors w	hen congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change			
11/6/2007	tcdd;2,3,7,8-		d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
	Changes Made		Comments
previous value:	8.8E-04	mg/kg	
changed to:	1.5E-03	mg/kg	Updated to reflect MTCA rule amendments
Note: Soil Method p-dioxin (tcdd;2,3	ds B & C, Carcinogen, Standard Formula Va ,7,8-) based on Gastrointestinal absorption	fraction (AB1) of	act (ingestion only) soil cleanup levels for 2,3,7,8 - tetrachlorodibenz 0.6, unitless.
Date of	Chemical		Parameter
Change 11/6/2007	tcdd;2,3,7,8-	Soil, Metho	d B, Carcinogen, Standard Formula Value, Direct
			gestion only), unrestricted land use
	Changes Made		Comments
previous value:	6.7E-06	mg/kg	
changed to: Note: Soil Method	1.1E-05 ds B & C, Carcinogen, Standard Formula Va	mg/kg alue, Direct Cont	Updated to reflect MTCA rule amendments act (ingestion only) soil cleanup levels for 2,3,7,8 - tetrachlorodibenz
p-dioxin (tcdd;2,3	,7,8-) based on Gastrointestinal absorption	fraction (AB1) of	0.6, unitless.
Date of Change	Chemical		Parameter
11/6/2007	indeno[1,2,3-cd]pyrene		d C, Carcinogen, Standard Formula Value, Direct
		Contact (ing	gestion only), industrial land use
	Changes Made		Comments
nrovious	1 05 1 01	ma/ka	
previous value:	1.8E+01	mg/kg	Lindeted to reflect MTCA mule are and recent
value: changed to:	see additional information		Updated to reflect MTCA rule amendments
value: changed to:	see additional information		Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific
value: changed to: Note: Click here tevaluations. Date of	see additional information		
value: changed to: Note: Click here tevaluations. Date of Change	see additional information o review CLARC Guidance for toxicity equiv	valency factors w	hen congener-specific analysis is conducted for site-specific Parameter
value: changed to: Note: Click here tevaluations. Date of	see additional information o review CLARC Guidance for toxicity equiv	valency factors w	hen congener-specific analysis is conducted for site-specific
value: changed to: Note: Click here tevaluations. Date of Change	see additional information o review CLARC Guidance for toxicity equiv	valency factors w	hen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	see additional information o review CLARC Guidance for toxicity equiv	valency factors w	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	see additional information o review CLARC Guidance for toxicity equivariate Chemical indeno[1,2,3-cd]pyrene Changes Made	Soil, Methocontact (inc	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here t	see additional information o review CLARC Guidance for toxicity equiv Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information	soil, Methocontact (ing	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations.	see additional information o review CLARC Guidance for toxicity equivariate Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equivariate contents of the contents of	soil, Methocontact (ing	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv	Soil, Methodonact (ing	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations.	see additional information o review CLARC Guidance for toxicity equivariate Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equivariate contents of the contents of	Soil, Methodors where the state of the state	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv	Soil, Methodors where the state of the state	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv	Soil, Methodors where the state of the state	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	see additional information o review CLARC Guidance for toxicity equiv Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv Chemical dibenzo[a,h]anthracene Changes Made	soil, Methodors where the soil is soil i	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv	soil, Methodon Contact (ing mg/kg soil, Methodon Contact (ing mg/kg mg/kg mg/kg	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv	soil, Methodon Contact (ing mg/kg soil, Methodon Contact (ing mg/kg mg/kg mg/kg	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 Date of Change 11/6/2007	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv	soil, Methodon Contact (ing mg/kg soil, Methodon Contact (ing mg/kg mg/kg mg/kg	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 Date of Change 11/6/2007	chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equivormation control co	walency factors where soil, Method Contact (ing mg/kg) Soil, Method Contact (ing mg/kg) walency factors where soil, Method Contact (ing mg/kg) Soil, Method Contact (ing mg/kg)	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change changed to: Note: Click here tevaluations.	see additional information o review CLARC Guidance for toxicity equiv Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv Chemical dibenzo[a,h]anthracene Changes Made 1.8E+01 see additional information o review CLARC Guidance for toxicity equiv	walency factors where soil, Method Contact (ing mg/kg) Soil, Method Contact (ing mg/kg) walency factors where soil, Method Contact (ing mg/kg) Soil, Method Contact (ing mg/kg)	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments section only), industrial land use
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 Previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 Previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007	see additional information o review CLARC Guidance for toxicity equiv Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv Chemical dibenzo[a,h]anthracene Changes Made 1.8E+01 see additional information o review CLARC Guidance for toxicity equiv Chemical dibenzo[a,h]anthracene Chemical dibenzo[a,h]anthracene	soil, Methor Contact (ing mg/kg soil, Methor Contact (ing mg/kg soil, Methor Contact (ing soil)).	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct
value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change 11/6/2007 previous value: changed to: Note: Click here tevaluations. Date of Change changed to: Note: Click here tevaluations.	see additional information o review CLARC Guidance for toxicity equiv Chemical indeno[1,2,3-cd]pyrene Changes Made 1.4E-01 see additional information o review CLARC Guidance for toxicity equiv Chemical dibenzo[a,h]anthracene Changes Made 1.8E+01 see additional information o review CLARC Guidance for toxicity equiv Chemical dibenzo[a,h]anthracene	walency factors where soil, Method Contact (ing mg/kg) Soil, Method Contact (ing mg/kg) walency factors where soil, Method Contact (ing mg/kg) Soil, Method Contact (ing mg/kg)	Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d C, Carcinogen, Standard Formula Value, Direct gestion only), industrial land use Comments Updated to reflect MTCA rule amendments section only), industrial land use Comments Updated to reflect MTCA rule amendments hen congener-specific analysis is conducted for site-specific Parameter d B, Carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use

Date of	Chemical		Parameter
Change 11/6/2007	chrysene	Soil, Meth	od C, Carcinogen, Standard Formula Value, Direct
		Contact (i	ngestion only), industrial land use
	Changes Made		Comments
orevious ⁄alue:	1.8E+01	mg/kg	
changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to	o review CLARC Guidance for toxicity equi	valency factors	when congener-specific analysis is conducted for site-specific
Date of	Chemical		Parameter
Change	Onemidal		
11/6/2007	chrysene		od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
	Changes Made		Comments
orevious	1.4E-01	mg/kg	
value: changed to:	see additional information		Updated to reflect MTCA rule amendments
Note: Click here to	o review CLARC Guidance for toxicity equi	valency factors	when congener-specific analysis is conducted for site-specific
evaluations.		-	
Date of Change	Chemical		Parameter
11/6/2007	benzo[k]fluoranthene		od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use
		T COTTLAGE (III	
orevious	Changes Made 1.8E+01	mg/kg	Comments
value: changed to:	see additional information	3, 3	Updated to reflect MTCA rule amendments
manged to.	See additional information		opadica to reneat wit of traic amonaments
	o review CLARC Guidance for toxicity equi	valency factors	when congener-specific analysis is conducted for site-specific
evaluations.		valency factors	
Date of	c review CLARC Guidance for toxicity equi	valency factors	when congener-specific analysis is conducted for site-specific Parameter
Date of Change		Soil, Meth	
Date of Change	Chemical	Soil, Meth	Parameter od B, Carcinogen, Standard Formula Value, Direct
Date of Change	Chemical benzo[k]fluoranthene	Soil, Meth	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
Date of Change 11/6/2007 Drevious value:	Chemical benzo[k]fluoranthene Changes Made	Soil, Meth Contact (in	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use
Date of Change 11/6/2007 Drevious Value: Changed to:	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information	Soil, Meth Contact (ii mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments
Date of Change 11/6/2007 Drevious Value: Changed to: Change to: C	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information preview CLARC Guidance for toxicity equi	Soil, Meth Contact (ii mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific
Date of Change 11/6/2007 Drevious value: Changed to: Note: Click here to evaluations.	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information	Soil, Meth Contact (ii mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments
Date of Change 11/6/2007 Drevious value: changed to:	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information preview CLARC Guidance for toxicity equi	Soil, Meth Contact (ii mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific
Date of Change 11/6/2007 Drevious value: Changed to: Note: Click here to evaluations. Date of Change	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi	Soil, Meth Contact (ii mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct
Date of Change 11/6/2007 Drevious value: Changed to: Note: Click here to evaluations. Date of Change 11/6/2007	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene	Soil, Meth Contact (ii mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use
Date of Change 11/6/2007 Drevious value: Changed to: Note: Click here to evaluations. Date of Change 11/6/2007	Chemical benzo[k]fluoranthene Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made	Soil, Meth Contact (in mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use
Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Drevious Value: Change to: Note: Click here to	Chemical Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information	Soil, Meth Contact (in mg/kg Soil, Meth Contact (in mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments
Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Drevious Value: Change 11/6/2007	Chemical Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information	Soil, Meth Contact (in mg/kg Soil, Meth Contact (in mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific
Date of Change 11/6/2007	Chemical Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information	Soil, Meth Contact (in mg/kg Soil, Meth Contact (in mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments
Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Drevious Value: Change 11/6/2007 Drevious Value: Changed to: Note: Click here to evaluations. Date of Change Change Date of Change	Chemical Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information	Soil, Meth Contact (ii mg/kg valency factors Soil, Meth Contact (ii mg/kg valency factors	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od B, Carcinogen, Standard Formula Value, Direct
Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Date of Change 11/6/2007 Drevious Previous Previous	Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Changes Made 1.8E+01 see additional information review CLARC Guidance for toxicity equi Changes Made 1.8E+01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene	Soil, Meth Contact (ii mg/kg valency factors Soil, Meth Contact (ii mg/kg valency factors	Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use
Date of Change 1/6/2007 Date of Change 1/6/2007 Date of Change 1/6/2007 Date of Change 1/6/2007 Drevious Value: Change 1/6/2007 Drevious Change 1/6/2007	Chemical Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information review CLARC Guidance for toxicity equi Changes Made	Soil, Meth Contact (ii mg/kg valency factors Soil, Meth Contact (ii mg/kg valency factors	Parameter od B, Carcinogen, Standard Formula Value, Direct ngestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct ngestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od B, Carcinogen, Standard Formula Value, Direct
Date of Change III/6/2007	Changes Made 1.4E-01 see additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information review CLARC Guidance for toxicity equi Changes Made 1.8E+01 See additional information review CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made	Soil, Meth Contact (ii mg/kg valency factors Soil, Meth Contact (ii mg/kg valency factors	Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use
Date of Change 1/6/2007	Changes Made 1.4E-01 see additional information creview CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information creview CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.4E-01 see additional information	Soil, Meth Contact (in mg/kg Soil, Meth Contact (in mg/kg Valency factors Soil, Meth Contact (in mg/kg	Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter od B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Comments
previous ralue: change 1/6/2007 Date of change 1/6/2007	Changes Made 1.4E-01 see additional information changes Made 1.8E+01 see additional information changes Made 1.4E-01 see additional information changes Made 1.4E-01 see additional information changes Made	Soil, Meth Contact (in mg/kg Soil, Meth Contact (in mg/kg Valency factors Soil, Meth Contact (in mg/kg	Parameter ood B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter ood C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter ood B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific sylvantic analysis is conducted for site-specific
Date of Change 11/6/2007	Changes Made 1.4E-01 see additional information creview CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.8E+01 see additional information creview CLARC Guidance for toxicity equi Chemical benzo[b]fluoranthene Changes Made 1.4E-01 see additional information	Soil, Meth Contact (in mg/kg Soil, Meth Contact (in mg/kg Valency factors Soil, Meth Contact (in mg/kg	Parameter ood B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter ood C, Carcinogen, Standard Formula Value, Direct Ingestion only), industrial land use Comments Updated to reflect MTCA rule amendments when congener-specific analysis is conducted for site-specific Parameter ood B, Carcinogen, Standard Formula Value, Direct Ingestion only), unrestricted land use Comments Updated to reflect MTCA rule amendments

	Changes Made		Comments
previous value:	1.8E+01	mg/kg	

changed to: see additional information Updated to reflect MTCA rule amendments Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific evaluations. Date of Chemical **Parameter** Change 11/6/2007 benzo[a]anthracene Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use **Changes Made** Comments previous 1.4E-01 mg/kg value: Updated to reflect MTCA rule amendments changed to: see additional information Note: Click here to review CLARC Guidance for toxicity equivalency factors when congener-specific analysis is conducted for site-specific Date of Chemical **Parameter** Change 8/9/2007 ethylbenzene Air, Method B, Non-Carcinogen, Standard Formula Value **Changes Made** Comments previous 4.6E+03 µg/m3 value: changed to: 4.6E+02 µg/m3 **Parameter** Date of Chemical Change 8/9/2007 Air, Method C, Non-carcinogen, Standard Formula Value ethylbenzene Comments **Changes Made** previous 1.E+04 μg/m3 value: changed to: 1.E+03 μg/m3 Date of Chemical **Parameter** Change 11/22/2006 Ground Water ARAR - State Primary Maximum Contaminant Level arsenic, inorganic (MCL) **Changes Made** Comments previous 5.E-02 mg/L value: mg/L changed to: 1.E-02 Date of Chemical **Parameter** Change 5/22/2006 dichloroethylene;1,1-Ground Water, Method B, Non-carcinogen, Standard Formula Value **Changes Made** Comments previous 7.2E + 01μg/L value: changed to: μg/L 4.E+02 Date of Chemical **Parameter** Change Oral Cancer Potency Factor (CPFo) 1/17/2006 butadiene;1,3-**Changes Made** Comments previous Researched-No Data value: changed to: kg-day/mg 1.1E-01 Date of Chemical **Parameter** Change 1/17/2006 Surface Water, Method C, Non-Carcinogen, Standard Formula toluene Value **Changes Made** Comments previous 1.2E+05 μg/L value: changed to: 4.7E+04 μg/L Date of Chemical **Parameter** Change 1/17/2006 toluene Surface Water, Method B, Non-Carcinogen, Standard Formula

	Changes Made		Comments
previous	4.8E+04	μg/L	
value: changed to:	1.9E+04	μg/L	
onangea to.	1.56 101	μ9/ ⊑	
Date of	Observiced		Parameter
Date of Change	Chemical		Parameter
1/17/2006	toluene		r, Method C, Non-carcinogen, Standard Formula
		Value	
	Changes Made		Comments
previous value:	3.5E+03	μg/L	
changed to:	1.4E+03	μg/L	
-			
Date of	Chemical		Parameter
Change	Onemour		r drameter
1/17/2006	toluene		r, Method B, Non-carcinogen, Standard Formula
		Value	
	Changes Made		Comments
orevious value:	1.6E+03	μg/L	
changed to:	6.4E+02	μg/L	
Date of	Chemical		Parameter
Change	Jiloiniloai		
1/17/2006	toluene		C, Non-carcinogen, Standard Fomula Value, Direct
		Contact (inge	stion only), industrial land use
	Changes Made		Comments
previous value:	7.E+05	mg/kg	
changed to:	2.8E+05	mg/kg	
Date of	Chemical		Parameter
Change	<u> </u>		
1/17/2006	toluene		3, Non-carcinogen, Standard Formula Value, Direct stion only), unrestricted land use
		Contact (inge	stori ority), diffestiteted land use
	Changes Made		Comments
previous value:	Changes Made 1.6E+04	mg/kg	Comments
	-		Comments
value:	1.6E+04	mg/kg	Comments
value: changed to: Date of	1.6E+04	mg/kg	Comments Parameter
value: changed to: Date of Change	1.6E+04 6.4E+03 Chemical	mg/kg mg/kg	Parameter
value: changed to: Date of Change	1.6E+04 6.4E+03	mg/kg mg/kg	
value: changed to: Date of Change	1.6E+04 6.4E+03 Chemical toluene Changes Made	mg/kg mg/kg Oral Reference	Parameter
value: changed to: Date of Change 1/17/2006	1.6E+04 6.4E+03 Chemical toluene	mg/kg mg/kg Oral Reference	Parameter ee Dose (RfDo)
Date of Change 1/17/2006 Drevious value:	1.6E+04 6.4E+03 Chemical toluene Changes Made	mg/kg mg/kg Oral Reference	Parameter ee Dose (RfDo)
Date of Change 1/17/2006 Drevious value:	1.6E+04 6.4E+03 Chemical toluene Changes Made 2.E-01	mg/kg mg/kg Oral Reference mg/kg-day	Parameter ee Dose (RfDo)
value: changed to: Date of Change 1/17/2006 previous value: changed to:	1.6E+04 6.4E+03 Chemical toluene Changes Made 2.E-01	mg/kg mg/kg Oral Reference mg/kg-day	Parameter ee Dose (RfDo)
Date of Change to: Date of Change 1/17/2006 previous value: changed to: Date of Change	1.6E+04 6.4E+03 Chemical toluene Changes Made 2.E-01 8.E-02 Chemical	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day	Parameter See Dose (RfDo) Comments Parameter
Date of Change 1/17/2006 previous value: changed to: Date of Change	1.6E+04 6.4E+03 Chemical toluene Changes Made 2.E-01 8.E-02	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day	Parameter te Dose (RfDo) Comments
Date of Change to: Date of Change 1/17/2006 previous value: changed to: Date of Change	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3-	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter See Dose (RfDo) Comments Parameter
Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change 1/17/2006	1.6E+04 6.4E+03 Chemical toluene Changes Made 2.E-01 8.E-02 Chemical	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter ce Dose (RfDo) Comments Parameter Gerence Dose (RfDi)
Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter ce Dose (RfDo) Comments Parameter Gerence Dose (RfDi)
Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter ce Dose (RfDo) Comments Parameter Gerence Dose (RfDi)
Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data 5.7E-04	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter ce Dose (RfDo) Comments Parameter cerence Dose (RfDi) Comments
Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter ce Dose (RfDo) Comments Parameter Gerence Dose (RfDi)
Date of Change 1/17/2006 Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data 5.7E-04	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Reference	Parameter ce Dose (RfDo) Comments Parameter cerence Dose (RfDi) Comments
Date of Change 1/17/2006 Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data 5.7E-04 Chemical butadiene;1,3-	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter Parameter Parameter Perence Dose (RfDi) Comments Parameter Perence Dose (RfDi)
Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made 7.7E-04 Chemical butadiene;1,3- Changes Made Chemical Changes Made	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter De Dose (RfDo) Comments Parameter Derence Dose (RfDi) Comments Parameter
Date of Change 1/17/2006 Date of Change to: Date of Change to: Date of Change 1/17/2006 Date of Change 1/17/2006 Date of Change to: Date of Change to: Date of Change to:	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data 5.7E-04 Changes Made Researched-No Data	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter Parameter Parameter Perence Dose (RfDi) Comments Parameter Perence Dose (RfDi)
Date of Change 1/17/2006 Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made 7.7E-04 Chemical butadiene;1,3- Changes Made Chemical Changes Made	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter Parameter Parameter Perence Dose (RfDi) Comments Parameter Perence Dose (RfDi)
Date of Change 1/17/2006 Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data 5.7E-04 Changes Made Researched-No Data	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter Parameter Parameter Perence Dose (RfDi) Comments Parameter Perence Dose (RfDi)
Date of Change 1/17/2006	Chemical toluene Changes Made 2.E-01 8.E-02 Chemical butadiene;1,3- Changes Made Researched-No Data 5.7E-04 Changes Made Researched-No Data	mg/kg mg/kg Oral Reference mg/kg-day mg/kg-day Inhalation Ref	Parameter Parameter Parameter Perence Dose (RfDi) Comments Parameter Perence Dose (RfDi)

	Changes Made	:	Comments
revious	4.E+02	μg/m3	- Comments
alue: hanged to:	4.9E+03	μg/m3	
		₁ . 3,	
Date of	Chemical		Parameter
Change			
1/3/2006	toluene	Air, Method B	, Non-Carcinogen, Standard Formula Value
	Changes Made)	Comments
orevious value:	1.8E+02	μg/m3	
changed to:	2.2E+03	μg/m3	
		10,	
Date of	Chemical		Parameter
Change			
1/3/2006	hexane;n-	Air, Method C	, Non-carcinogen, Standard Formula Value
	Changes Made	•	Comments
orevious value:	2.E+02	μg/m3	
changed to:	7.E+02	μg/m3	
Date of	Chemical		Parameter
Change	Silonilloai		
1/3/2006	hexane;n-	Air, Method B	, Non-Carcinogen, Standard Formula Value
	Changes Made)	Comments
previous	9.1E+01	μg/m3	
value: changed to:	3.2E+02	μg/m3	
J-2 .o.		ייייונפיין	
Date of	Chemical		Parameter
Change	Gilenilleai		i arameter
1/3/2006	toluene	Inhalation Ref	erence Dose (RfDi)
	Changes Made)	Comments
previous	1.1E-01	mg/kg-day	2 2
value: changed to:	1.4E+00	mg/kg-day	
	11.2.00	ing/ng day	
Date of	Chemical		Parameter Parame
Change	Shehillean		· drameter
1/3/2006	hexane;n-	Inhalation Ref	erence Dose (RfDi)
	Changes Made	•	Comments
previous	5.7E-02	mg/kg-day	
value:			
changed to:	2.F-01	ma/ka-dav	
changed to:	2.E-01	mg/kg-day	
-		mg/kg-day	Daramotor
Date of	2.E-01 Chemical	mg/kg-day	Parameter
Date of Change			Parameter , Non-carcinogen, Standard Formula Value
Date of Change	Chemical xylene;o-	Air, Method C	, Non-carcinogen, Standard Formula Value
Date of Change 12/19/2005 previous	Chemical	Air, Method C	
Date of Change 12/19/2005 previous value:	Chemical xylene;o- Changes Made 7.E+02	Air, Method C	, Non-carcinogen, Standard Formula Value
Date of Change 12/19/2005 previous value:	Chemical xylene;o- Changes Made	Air, Method C	, Non-carcinogen, Standard Formula Value
Date of Change 12/19/2005 previous value: changed to:	Chemical xylene;o- Changes Made 7.E+02 1.E+02	Air, Method C	, Non-carcinogen, Standard Formula Value Comments
Date of Change 12/19/2005 previous value: changed to:	Chemical xylene;o- Changes Made 7.E+02	Air, Method C	, Non-carcinogen, Standard Formula Value
Date of Change 12/19/2005 Descriptions of Change 12/19/2005 Date of Change	Chemical xylene;o- Changes Made 7.E+02 1.E+02	Air, Method C μg/m3 μg/m3	, Non-carcinogen, Standard Formula Value Comments
Date of Change 12/19/2005 Descriptions of Change 12/19/2005 Date of Change	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o-	Air, Method C μg/m3 μg/m3 Air, Method B	Comments Parameter Non-Carcinogen, Standard Formula Value
Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made	Air, Method C μg/m3 μg/m3 Air, Method B	, Non-carcinogen, Standard Formula Value Comments Parameter
Date of Change 12/19/2005 Description of Change 12/19/2005 Date of Change 12/19/2005 Description of Change 12/19/2005 Description of Change 12/19/2005	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made 3.2E+02	Air, Method C μg/m3 μg/m3 Air, Method B μg/m3	Comments Parameter Non-Carcinogen, Standard Formula Value
Date of Change 12/19/2005 Description of Change 12/19/2005 Date of Change 12/19/2005 Description of Change 12/19/2005 Description of Change 12/19/2005	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made	Air, Method C μg/m3 μg/m3 Air, Method B	Comments Parameter Non-Carcinogen, Standard Formula Value
Date of Change 12/19/2005 Descriptions value: Changed to: Date of Change 12/19/2005 Descriptions value: Change 12/19/2005 Descriptions value: Changed to:	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made 3.2E+02 4.6E+01	Air, Method C μg/m3 μg/m3 Air, Method B μg/m3	Parameter , Non-Carcinogen, Standard Formula Value Comments Comments Comments Comments
Date of Change 12/19/2005 Description of Change 12/19/2005 Date of Change 12/19/2005 Description of Change 12/19/2005	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made 3.2E+02	Air, Method C μg/m3 μg/m3 Air, Method B μg/m3	Comments Parameter Non-Carcinogen, Standard Formula Value
Date of Change 12/19/2005 Date of Change 12/19/2005 Date of Change 12/19/2005 Drevious value: changed to: Date of Change 12/19/2005	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made 3.2E+02 4.6E+01	Air, Method C μg/m3 μg/m3 Air, Method B μg/m3 μg/m3 μg/m3	Parameter , Non-Carcinogen, Standard Formula Value Comments Comments Comments Comments
Date of Change 12/19/2005 previous value:	Chemical xylene;o- Changes Made 7.E+02 1.E+02 Chemical xylene;o- Changes Made 3.2E+02 4.6E+01 Chemical	Air, Method C	Parameter Comments Comments Parameter Non-Carcinogen, Standard Formula Value Comments Parameter

/alue:			
changed to:	1.E+02	μg/m3	
Date of	Chemical		Dorometer
Date of Change	Chemical		Parameter
12/19/2005	xylene;m-	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes M	lade	Comments
previous	3.2E+02	μg/m3	
value: changed to:	4.6E+01	μg/m3	
Date of Change	Chemical		Parameter
12/19/2005	xylenes		ter, Method C, Non-carcinogen, Standard Formula
		Value	
previous	Changes M 3.5E+04	lade μg/L	Comments
value:			
changed to:	3.5E+03	μg/L	
Date of	Chemical		Parameter
Change		0	
12/19/2005	xylenes	Ground Wat Value	ter, Method B, Non-carcinogen, Standard Formula
	Changes M	lade	Comments
previous	1.6E+04	μg/L	
value: changed to:	1.6E+03	μg/L	
Date of	Chemical		Parameter
Change 12/19/2005	xylenes		d C, Non-carcinogen, Standard Fomula Value, Direct
		Contact (ing	gestion only), industrial land use
	Changes M		Comments
previous value:	7.E+06	mg/kg	
changed to:	7.E+05	mg/kg	
Date of	Chemical		Parameter
Date of Change	Chemical		Parameter
Change	Chemical xylenes		Parameter d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Change	xylenes	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Change 12/19/2005 previous		Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct
Change 12/19/2005 previous value:	xylenes Changes M 1.6E+05	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Change 12/19/2005 previous value:	xylenes Changes M	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Change 12/19/2005 previous value: changed to: Date of	xylenes Changes M 1.6E+05	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use
Change 12/19/2005 previous value: changed to: Date of Change	Changes M 1.6E+05 1.6E+04 Chemical	Contact (ing	Comments Parameter
Change 12/19/2005 previous value: changed to: Date of Change	Changes M 1.6E+05 1.6E+04	Contact (ing	d B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments
Change 12/19/2005 previous value: changed to: Date of Change	Changes M 1.6E+05 1.6E+04 Chemical	Contact (ing lade mg/kg mg/kg Surface Wa Value	Comments Parameter
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes M 1.6E+05 1.6E+04 Chemical benzene	Contact (ing lade mg/kg mg/kg Surface Wa Value	Comments Parameter ter, Method C, Non-Carcinogen, Standard Formula Direct Jestion Only), unrestricted land use
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value:	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M	Contact (ing lade mg/kg mg/kg Surface Wa Value	Comments Parameter ter, Method C, Non-Carcinogen, Standard Formula Direct Jestion Only), unrestricted land use
	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03	Contact (ing lade mg/kg mg/kg Surface Wa Value lade μg/L	Comments Parameter ter, Method C, Non-Carcinogen, Standard Formula Direct Jestion Only), unrestricted land use
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03	Contact (ing lade mg/kg mg/kg Surface Wa Value lade μg/L	Comments Parameter ter, Method C, Non-Carcinogen, Standard Formula Direct Jestion Only), unrestricted land use
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03	Contact (ing lade mg/kg mg/kg Surface Wa Value lade μg/L μg/L μg/L	B, Non-carcinogen, Standard Formula Value, Direct gestion only), unrestricted land use Comments Parameter ter, Method C, Non-Carcinogen, Standard Formula Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03	Contact (ing lade mg/kg mg/kg Surface Wa Value lade μg/L μg/L	Parameter Comments Comments Comments Parameter Comments Comments Comments Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03 Chemical benzene	Contact (ing lade mg/kg mg/kg Surface Wa Value lade μg/L μg/L μg/L Surface Wa Value	Parameter Comments Comments Comments Parameter Comments Comments Comments Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03 Chemical benzene	Contact (ing	Parameter Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03 Chemical benzene	Contact (ing lade mg/kg mg/kg Surface Wa Value lade μg/L μg/L μg/L Surface Wa Value	Parameter Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to:	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03 Chemical benzene Changes M 1.5E+03	Contact (ing	Parameter Comments Comments Comments Parameter ter, Method C, Non-Carcinogen, Standard Formula Parameter ter, Method B, Non-Carcinogen, Standard Formula Comments Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes M 1.6E+05 1.6E+04 Chemical benzene Changes M 3.7E+03 5.E+03 Chemical benzene Changes M 1.5E+03	Contact (ing	Parameter Comments

previous	Changes Made 5.3E+01	μg/L	Comments
value: changed to:	7.E+01	μg/L	
Data of	Chamical		Donomotor
Date of Change	Chemical		Parameter
12/19/2005	benzene	Ground Wat Value	er, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous value:	2.4E+01	μg/L	
changed to:	3.2E+01	μg/L	
Date of	Chemical		Parameter
Change			
12/19/2005	benzene		C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
	Changes Made		Comments
previous value:	1.1E+04	mg/kg	Comments
changed to:	1.4E+04	mg/kg	
Date of	Chemical		Parameter
Change			
12/19/2005	benzene		B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous value:	2.4E+02	mg/kg	Commonts
changed to:	3.2E+02	mg/kg	
Date of	Oh ami'r al		Danamartan
Date of Change	Chemical		Parameter
12/19/2005	benzene	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	6.E+00	μg/m3	
changed to:	3.E+01	μg/m3	
Date of	Chemical		Parameter
	Chemical		Parameter
Change	Chemical benzene	Air, Method	Parameter B, Non-Carcinogen, Standard Formula Value
Date of Change 12/19/2005	benzene Changes Made		
Change 12/19/2005 previous	benzene	Air, Method	B, Non-Carcinogen, Standard Formula Value
Change 12/19/2005 previous value:	benzene Changes Made		B, Non-Carcinogen, Standard Formula Value
Change 12/19/2005 previous value: changed to:	Changes Made 2.7E+00 1.4E+01	μg/m3	B, Non-Carcinogen, Standard Formula Value Comments
Change 12/19/2005 previous value: changed to: Date of	benzene Changes Made 2.7E+00	μg/m3	B, Non-Carcinogen, Standard Formula Value
Change 12/19/2005 previous value: changed to: Date of Change	Changes Made 2.7E+00 1.4E+01	μg/m3 μg/m3	B, Non-Carcinogen, Standard Formula Value Comments
Change 12/19/2005 previous value: changed to: Date of Change	Changes Made 2.7E+00 1.4E+01 Chemical	μg/m3 μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Parameter
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3-	μg/m3 μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Parameter ancer Potency Factor (CPFi)
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made	μg/m3 μg/m3	B, Non-Carcinogen, Standard Formula Value Comments Parameter ancer Potency Factor (CPFi)
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value:	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01	μg/m3 μg/m3 Inhalation Ca	B, Non-Carcinogen, Standard Formula Value Comments Parameter ancer Potency Factor (CPFi)
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01	μg/m3 μg/m3 Inhalation Ca	B, Non-Carcinogen, Standard Formula Value Comments Parameter ancer Potency Factor (CPFi)
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to:	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01 1.1E-01	μg/m3 μg/m3 Inhalation Call kg-day/mg kg-day/mg	Parameter ancer Potency Factor (CPFi) Comments Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01 1.1E-01 Chemical xylene;o-	μg/m3 μg/m3 Inhalation Call kg-day/mg kg-day/mg	Parameter Comments Comments Parameter Comments Comments Parameter Comments Comments Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01 1.1E-01 Chemical	μg/m3 μg/m3 Inhalation Call kg-day/mg kg-day/mg	B, Non-Carcinogen, Standard Formula Value Comments Parameter ancer Potency Factor (CPFi) Comments Parameter
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01 1.1E-01 Chemical xylene;o- Changes Made	μg/m3 μg/m3 Inhalation Call kg-day/mg kg-day/mg Inhalation Re	Parameter Comments Comments Parameter Comments Comments Comments Comments Comments
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01 1.1E-01 Chemical xylene;o- Changes Made 2.E-01	μg/m3 μg/m3 Inhalation Call kg-day/mg kg-day/mg Inhalation Ro	Parameter Comments Comments Parameter ancer Potency Factor (CPFi) Comments Parameter Parameter Parameter Parameter
Change 12/19/2005 previous value: changed to: Date of Change 12/19/2005 previous value: changed to: Date of Change	Changes Made 2.7E+00 1.4E+01 Chemical butadiene;1,3- Changes Made 9.8E-01 1.1E-01 Chemical xylene;o- Changes Made 2.E-01	μg/m3 μg/m3 Inhalation Call kg-day/mg kg-day/mg Inhalation Ro	Parameter Comments Comments Parameter Comments Comments Comments Comments Comments

2.9E-02		
2.9E-02	mg/kg-day	
Chemical		Parameter
benzene	Inhalation Ref	erence Dose (RfDi)
Changes Mad-		Comments
1.7E-03	mg/kg-day	Comments
8 6F-03		
OIUL UJ	mg/kg-uay	
Chemical		Parameter
formaldehyde	Inhalation Car	ncer Potency Factor (CPFi)
Changes Made		Comments
4.6E-02	kg-day/mg	
4.6E-02	kg-day/mg	
Chemical		Parameter
formaldehyde	Oral Reference	e Dose (RfDo)
2.E-01	mg/kg-day	Comments
-		
1.3E-U1	піу/кд-аау	
Chemical		Parameter
toluenediamine;2,6-	Inhalation Ref	erence Dose (RfDi)
Changes Made Researched-No Data		Comments
2.E-01	mg/kg-day	
Chemical		Parameter
methyl tert-butyl ether	Oral Cancer P	otency Factor (CPFo)
,,		, , ,
Changes Made		Comments
Researched-No Data		
1.8E-03	kg-day/mg	
Chemical		Parameter
ethyl chloride	Inhalation Car	ncer Potency Factor (CPFi)
•	I IIII alauon Cal	
Changes Made Researched-No Data		Comments
2.9E-03	kg-day/mg	
		_
Chemical		Parameter
ethyl chloride	Oral Cancer P	otency Factor (CPFo)
Changes Made		Comments
Researched-No Data		Johnnonta
2.9F-03	kg-day/mg	
	ng day/ilig	
		Parameter
Chemical		i didiliotoi
Chemical dichloroethylene;1,2-,trans		erence Dose (RfDi)
	Changes Made 1.7E-03 8.6E-03 Chemical formaldehyde Changes Made 4.6E-02 4.6E-02 4.6E-02 Chemical formaldehyde Changes Made 2.E-01 1.5E-01 Chemical toluenediamine;2,6- Changes Made Researched-No Data 2.E-01 Chemical methyl tert-butyl ether Changes Made Researched-No Data 1.8E-03 Chemical ethyl chloride Changes Made Researched-No Data	benzene Inhalation Ref Changes Made 1.7E-03 mg/kg-day 8.6E-03 mg/kg-day Chemical Changes Made 4.6E-02 kg-day/mg 4.6E-02 kg-day/mg Chemical formaldehyde Oral Reference Changes Made 2.E-01 mg/kg-day 1.5E-01 mg/kg-day Chemical toluenediamine;2,6- Inhalation Ref Changes Made Researched-No Data 2.E-01 mg/kg-day Chemical Changes Made Researched-No Data 1.8E-03 kg-day/mg Changes Made Researched-No Data 1.8E-03 kg-day/mg Changes Made Researched-No Data 1.8E-03 kg-day/mg Chemical changes Made Researched-No Data 1.8E-03 kg-day/mg Changes Made Researched-No Data 2.9E-03 kg-day/mg Changes Made Researched-No Data 2.9E-03 kg-day/mg Changes Made Researched-No Data 2.9E-03 kg-day/mg Changes Made Researched-No Data Changes Made Researched-No Data Changes Made Researched-No Data Changes Made Researched-No Data

previous	Researched-No Data		
value: changed to:	2.E-02	mg/kg-day	
Date of	Chemical		Parameter
Change 10/3/2005	dichloroethane;1,2-	Inhalation R	eference Dose (RfDi)
10/0/2000			
previous	Changes Made Researched-No Data	9	Comments
value:	Researched-No Data		
changed to:	1.4E-03	mg/kg-day	
			_
Date of Change	Chemical		Parameter
10/3/2005	dichloroethane;1,2-	Oral Referer	nce Dose (RfDo)
	Changes Made	<u> </u>	Comments
previous	Researched-No Data		Commente
value: changed to:	2.E-02	mg/kg-day	
onangou to:	212 02	mg/kg day	
Date of	Chemical		Parameter
Change		0.15.4	
10/3/2005	dibenzofuran	Oral Referer	nce Dose (RfDo)
	Changes Made)	Comments
previous value:	Researched-No Data		
changed to:	2.E-03	mg/kg-day	
Date of	Chemical		Parameter
Change 10/3/2005	ddd	Inhalation Ca	ancer Potency Factor (CPFi)
previous	Changes Made Researched-No Data		Comments
value:			
changed to:	2.4E-01	kg-day/mg	
Date of	Chemical		Parameter
Change	Cileillicai		Faranietei
10/3/2005	chloroaniline;p-	Inhalation R	eference Dose (RfDi)
	Changes Made)	Comments
previous value:	Researched-No Data		
changed to:	4.E-03	mg/kg-day	
Date of	Chemical		Parameter
Change 10/3/2005	butyl benzyl phthalate	Inhalation Re	eference Dose (RfDi)
	, , . _,		- ()
	Changes Made)	Comments
previous	Researched-No Data		J
value: changed to:	2.E-01	mg/kg-day	
		, 3, 3	
Date of	Chemical		Parameter
Change	hannal ship 2 to	015 (200 Dags (DfD-)
10/3/2005	benzyl chloride	Ural Referer	nce Dose (RfDo)
	Changes Made	•	Comments
previous value:	Researched-No Data		
changed to:	2.9E-03	mg/kg-day	
Date of Change	Chemical		Parameter
COMPAN	benzyl chloride	Inhalation C	ancer Potency Factor (CPFi)
	DC112 yr Critoriae		
10/3/2005 previous	Changes Made Researched-No Data		Comments

	1.7E-01	kg-day/mg	
Date of Change	Chemical		Parameter
10/3/2005	benzyl chloride	Inhalation Re	eference Dose (RfDi)
	<u> </u>		(·····)
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	2.9E-03	mg/kg-day	
changed to.	2.96-03	ilig/kg-uay	
Date of	Chemical		Parameter
Change			. Gramoto.
9/28/2005	polychlorinated biphenyls	Ground Wate	er, Method A, Table Value
			_
	Changes Made		Comments
previous value:	Researched-No Data		see PCB Mixtures
changed to:	1.E-01	μg/L	
	112 01	M3/ =	
Data of	Ohamiaal		Paramatan
Date of Change	Chemical		Parameter
9/21/2005	cyanide	Surface Wat	er ARAR - Aquatic Life - Marine/Chronic - Ch. 173-
0/21/2000	Gydriad	201A WAC	or / it v it / iqualio Elio ivialino o in o in i i / o
	Olement Made		0
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	1.E+00	μg/L	
Date of	Chemical		Parameter
Change	Chemical		Parameter
9/21/2005	ammonia	Surface Wat	er ARAR - Aquatic Life - Marine/Chronic - Ch. 173-
0,21,2000		201A WAC	ior / iii viii vii vii vii vii vii vii vii
	Changes Made		Comments
previous value:	3.5E-02	μg/L	
changed to:	3.5E+01	μg/L	
Date of	Chemical		Parameter
Change	Officiality		i didilictor
9/21/2005	ammonia	Surface Wat	er ARAR - Aquatic Life - Marine/Acute - Ch. 173-201A
		WAC	<u> </u>
	Changes Made		Comments
previous	2.3E-01	μg/L	
value:		F-37 -	
changed to:	2.3E+02	μg/L	
Date of Change	Chemical		Parameter
9/21/2005	dinitrotoluene;2,6-	Inhalation Re	eference Dose (RfDi)
- ., - 000	3 5.5.165.10,2,0	aidion 10	
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	1.E-03	mg/kg-day	
changed to.	1.L UJ	mg/kg-uay	
Date of	Chemical		Parameter
Change	Onemical		i alametel
9/21/2005	dinitrotoluene;2,4-	Inhalation Re	eference Dose (RfDi)
	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	2.E-03	mg/kg-day	
-			
	Chamical		Dozomotov
Doto of	Chemical		Parameter
Change	zinc	Surface Wat	er ARAR - Aquatic Life - Marine/Chronic - National
Change	zinc		er ARAR - Aquatic Life - Marine/Chronic - National 40 CFR 131
Change			40 CFR 131
Date of Change 9/20/2005	Zinc Changes Made 8.6E+01		

Value.			
value: changed to:	8.1E+01	μg/L	
-			
Date of	Chemical		Parameter
Change	Gileniicai		r ai ailietei
9/20/2005	zinc		ARAR - Aquatic Life - Marine/Acute - National
		Toxics Rule, 4	U CFR 131
	Changes Made		Comments
previous	9.5E+01	μg/L	
value: changed to:	9.E+01	μg/L	
Date of	Chemical		Parameter
Change	onomiou.		r didilioto.
9/20/2005	zinc		ARAR - Aquatic Life - Fresh/Chronic - National
		Toxics Rule, 4	0 CFR 131
	Changes Made		Comments
previous value:	1.1E+02	μg/L	
changed to:	1.E+02	μg/L	
Date of	Chemical		Parameter
Change	Jiloniilodi		. d.d.iiotoi
9/20/2005	zinc		ARAR - Aquatic Life - Fresh/Acute - National Toxic
		Rule - 40 CFR	131
	Changes Made		Comments
previous value:	1.2E+02	μg/L	
changed to:	1.1E+02	μg/L	
Date of	Chemical		Parameter
Change	Officialical		Talameter
9/20/2005	silver		ARAR - Aquatic Life - Marine/Acute - National
		Toxics Rule, 4	0 CFR 131
	Changes Made		Comments
previous value:	2.3E+00	μg/L	
changed to:	1.9E+00	μg/L	
		<u>-</u>	
Date of	Chemical		Parameter
Change			
9/20/2005	silver	Surface Water Rule - 40 CFR	ARAR - Aquatic Life - Fresh/Acute - National Toxic:
		Nuie - 40 Cl N	101
	Changes Made		Comments
previous value:	4.1E+00	μg/L	
changed to:	3.4E+00	μg/L	
			Parameter
Date of	Chemical		
	Chemical		
Change	Chemical selenium and compounds		ARAR - Aquatic Life - Marine/Acute - National
Change		Surface Water Toxics Rule, 4	
Change			
Change 9/20/2005 previous	selenium and compounds		0 CFR 131
Change 9/20/2005 previous value:	selenium and compounds Changes Made	Toxics Rule, 4 μg/L	0 CFR 131
Change 9/20/2005 previous value:	Selenium and compounds Changes Made 3.E+02	Toxics Rule, 4	0 CFR 131
Previous value: changed to:	Changes Made 3.E+02 2.9E+02	Toxics Rule, 4 μg/L	Comments
Previous value: changed to:	Selenium and compounds Changes Made 3.E+02	Toxics Rule, 4 μg/L	0 CFR 131
Previous value: changed to: Date of Change	Changes Made 3.E+02 2.9E+02	Toxics Rule, 4 μg/L μg/L Surface Water	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National
Previous value: changed to: Date of Change	Selenium and compounds Changes Made 3.E+02 2.9E+02 Chemical	Toxics Rule, 4 μg/L μg/L	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National
Previous value: changed to: Date of Change	Selenium and compounds Changes Made 3.E+02 2.9E+02 Chemical	Toxics Rule, 4 μg/L μg/L Surface Water	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National
Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005	Changes Made 3.E+02 2.9E+02 Chemical nickel soluble salts	Toxics Rule, 4 μg/L μg/L Surface Water	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National O CFR 131
Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005 previous value:	Changes Made 3.E+02 2.9E+02 Chemical nickel soluble salts Changes Made 8.3E+00	μg/L μg/L Surface Water Toxics Rule, 4	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National 0 CFR 131
Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005	Changes Made 3.E+02 2.9E+02 Chemical nickel soluble salts Changes Made	μg/L μg/L Surface Water Toxics Rule, 4	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National O CFR 131
Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005 previous value: changed to:	Changes Made 3.E+02 2.9E+02 Chemical nickel soluble salts Changes Made 8.3E+00 8.2E+00	μg/L μg/L Surface Water Toxics Rule, 4	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National 0 CFR 131 Comments
Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005 previous value:	Changes Made 3.E+02 2.9E+02 Chemical nickel soluble salts Changes Made 8.3E+00	μg/L μg/L Surface Water Toxics Rule, 4	Comments Parameter ARAR - Aquatic Life - Marine/Chronic - National 0 CFR 131

		Toxics Rule	, 40 CFR 131
	Changes M	ade	Comments
previous	7.5E+01	μg/L	Comments
value:			
changed to:	7.4E+01	μg/L	
Date of	Chemical		Parameter
Change 9/20/2005	mercury	Surface Wa	ter ARAR - Aquatic Life - Fresh/Acute - National Toxics
0/20/2000	mercury	Rule - 40 Cl	
	Changes M	ada	Comments
previous	2.4E+00	μg/L	Comments
value:			
changed to:	2.1E+00	μg/L	
Date of	Chemical		Parameter
Change 9/20/2005	lead	Surface Wa	ter ARAR - Aquatic Life - Marine/Chronic - National
0/20/2000	loud		, 40 CFR 131
	Ohanna M		Comments
previous	Changes M 8.5E+00	ade μg/L	Comments
value:			
changed to:	8.1E+00	μg/L	
Date of	Chemical		Parameter
Change	Land	0 ()	ADAD Americal Venture (A. A. A
9/20/2005	lead		ter ARAR - Aquatic Life - Marine/Acute - National , 40 CFR 131
nrevious	Changes M		Comments
previous value:	2.2E+02	μg/L	
changed to:	2.1E+02	μg/L	
Date of	Chemical		Parameter
Change			
9/20/2005	lead		ter ARAR - Aquatic Life - Fresh/Chronic - National , 40 CFR 131
		·	, 10 01 10 10 1
municipal de la companya de la comp	Changes M		Comments
previous value:	3.2E+00	μg/L	
changed to:	2.5E+00	μg/L	
Date of	Chemical		Parameter
Change			
9/20/2005	lead	Surface Wa Rule - 40 Cl	ter ARAR - Aquatic Life - Fresh/Acute - National Toxics =R 131
		1\ule - 40 Cl	IX IVI
	Changes M		Comments
previous value:	Changes M 8.2E+01	ade μg/L	Comments
value:	_		Comments
value:	8.2E+01	μg/L	Comments
value: changed to:	8.2E+01 6.5E+01	μg/L	
value: changed to:	8.2E+01	μg/L	Parameter
value: changed to: Date of Change	8.2E+01 6.5E+01	μg/L μg/L Surface Wa	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National
value: changed to: Date of Change	8.2E+01 6.5E+01 Chemical	μg/L μg/L Surface Wa	Parameter
value: changed to: Date of Change	8.2E+01 6.5E+01 Chemical	μg/L μg/L Surface Wa Toxics Rule	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National
value: changed to: Date of Change 9/20/2005 previous	8.2E+01 6.5E+01 Chemical copper	μg/L μg/L Surface Wa Toxics Rule	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131
value: changed to: Date of Change 9/20/2005 previous value:	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00	μg/L μg/L Surface Wa Toxics Rule ade μg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131
value: changed to: Date of Change 9/20/2005 previous value:	8.2E+01 6.5E+01 Chemical copper Changes M	μg/L μg/L Surface Wa Toxics Rule	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131
value: changed to: Date of Change 9/20/2005 previous value: changed to:	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00 2.4E+00	μg/L μg/L Surface Wa Toxics Rule ade μg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131 Comments
value: changed to: Date of Change 9/20/2005 previous value: changed to: Date of	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00	μg/L μg/L Surface Wa Toxics Rule ade μg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131
value: changed to: Date of Change 9/20/2005 previous value: changed to:	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00 2.4E+00	μg/L μg/L Surface Wa Toxics Rule ade μg/L μg/L μg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131 Comments
value: changed to: Date of Change 9/20/2005 previous value: changed to: Date of Change	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00 2.4E+00 Chemical	μg/L μg/L Surface Wa Toxics Rule ade μg/L μg/L μg/L μg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131 Comments Parameter
value: changed to: Date of Change 9/20/2005 previous value: changed to: Date of Change	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00 2.4E+00 Chemical copper	μg/L μg/L Surface Wa Toxics Rule μg/L μg/L μg/L μg/L μg/L νg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131 Comments Parameter ter ARAR - Aquatic Life - Marine/Acute - National , 40 CFR 131
value: changed to: Date of Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005	8.2E+01 6.5E+01 Chemical copper Changes M 2.9E+00 2.4E+00 Chemical	μg/L μg/L Surface Wa Toxics Rule μg/L μg/L μg/L μg/L μg/L νg/L	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131 Comments Parameter ter ARAR - Aquatic Life - Marine/Acute - National
value: changed to: Date of Change 9/20/2005 previous value: changed to: Date of Change 9/20/2005	Chemical Changes M 2.9E+00 Chemical Chemical Chemical Chemical Copper	μg/L μg/L Surface Wa Toxics Rule ade μg/L μg/L μg/L μg/L α Surface Wa Toxics Rule	Parameter ter ARAR - Aquatic Life - Marine/Chronic - National , 40 CFR 131 Comments Parameter ter ARAR - Aquatic Life - Marine/Acute - National , 40 CFR 131

Date of Change	Chemical		Parameter
9/20/2005	copper		er ARAR - Aquatic Life - Fresh/Chronic - National
		Toxics Rule,	40 CFR 131
	Changes Mad		Comments
previous value:	1.2E+01	μg/L	
changed to:	1.1E+01	μg/L	
Date of	Chemical		Parameter
Change 9/20/2005	copper		r ARAR - Aquatic Life - Fresh/Acute - National Toxics
		Rule - 40 CFF	
previous	Changes Mad	e μg/L	Comments
value: changed to:	1.7E+01	μg/L	
onanged to.	1.72101	µg/ L	
Date of	Chemical		Parameter
Change 9/20/2005	chromium(VI)	Surface Wate	r ARAR - Aquatic Life - Fresh/Chronic - National
		Toxics Rule, 4	
previous	Changes Mad	e μg/L	Comments
value: changed to:	1.E+01	μg/L	
<u> </u>	, , , , , , , , , , , , , , , , , , , 	r-31 =	
Date of	Chemical		Parameter
Change 9/20/2005	chromium(\/I)	Surface Mate	r ARAR - Aquatic Life - Fresh/Acute - National Toxics
9/20/2005	chromium(VI)	Rule - 40 CFF	
	Changes Mad	е	Comments
previous value:	1.6E+01	μg/L	
changed to:	1.5E+01	μg/L	
Date of	Chemical		Parameter
Change 9/20/2005	chromium(III)	Surface Wate	er ARAR - Aquatic Life - Fresh/Chronic - National
0/20/2000	omornam(m)	Toxics Rule,	
	Changes Mad		Comments
previous value:	2.1E+02	μg/L	
changed to:	1.8E+02	μg/L	
Date of Change	Chemical		Parameter
9/20/2005	chromium(III)	Surface Wate Rule - 40 CFF	r ARAR - Aquatic Life - Fresh/Acute - National Toxics R 131
	Changes Mad	e	Comments
previous	1.7E+03	μg/L	,t
value: changed to:	5.5E+02	μg/L	
Date of Change	Chemical		Parameter
9/20/2005	cadmium in water		er ARAR - Aquatic Life - Marine/Acute - National
		Toxics Rule, 4	
previous	Changes Mad	e μg/L	Comments
value: changed to:	4.2E+01		
crianged to:	₹. ∠E+U1	μg/L	
Date of	Chemical		Parameter
Change 9/20/2005	cadmium in water	Surface Water	r ARAR - Aquatic Life - Fresh/Chronic - National
		Toxics Rule,	
	Changes Mad	е	Comments
previous	1.1E+00	μg/L	

Date of Change	changed to:	1.E+00	μg/L	
Change Change Changes Made Comments			1	
Changes Made		Chemical		Parameter
μg/L	9/20/2005	cadmium in water		
μg/L		Changes Made		Comments
Date of Change Chemical Parameter		_	μg/L	
Change		3.9E+00	μg/L	
Surface Water ARAR - Aquatic Life - Marine/Chronic - Clean Water Act \$304		Chemical		Parameter
Date of Changes Made		dieldrin		ter ARAR - Aquatic Life - Marine/Chronic - Clean Water
Date of Changes Made		Changes Made		Comments
Date of Changes Parameter	•	_	μg/L	Commonto
Change 9/19/2005 dieldrin Surface Water ARAR - Aquatic Life - Marine/Acute - Clean Water Act § 304		1.9E-03	μg/L	
Change 9/19/2005 dieldrin Surface Water ARAR - Aquatic Life - Marine/Acute - Clean Water Act § 304				
Surface Water ARAR - Aquatic Life - Marine/Acute - Clean Water Act \$304		Chemical		Parameter
Changes Made		dieldrin		ter ARAR - Aquatic Life - Marine/Acute - Clean Water
Parameter Parameter		Changes Made	•	Commonts
Chemical Parameter	•	_	μg/L	Comments
Date of Changes Made Parameter Changes Made Comments Parameter Changes Made Parameter Changed to: 1.6E+02 µg/L Date of Changes Made Parameter Changes Made Parameter Changes Made Parameter Changes Made Comments Changes Made Comments Parameter Changes Made Comments Previous Value: Parameter Changes Made Comments Previous Parameter Changed to: 1.4E+02 µg/L Date of Changes Made Comments Parameter Changed to: 1.4E+02 µg/L Date of Changes Made Comments Parameter Change Parameter Change Parameter Change Parameter Change Parameter Change Nade Comments Parameter Change Parameter Change Nade Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Changes Made Comments Parameter Change Intervious Parameter Change Nade Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Changes Made Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water - Clean Water Act §304 Comments Parameter Change Nater ARAR - Human Health - Fresh Water ARAR - Human Health - Fresh Wate		7 1F-01	ua/l	
Change Ground Water, Method A, Table Value	onangea to.	7.12 01	ру/ С	
		Chemical		Parameter
previous value: changed to: 1.6E+02		naphthalene	Ground Wa	ter, Method A, Table Value
previous value: changed to: 1.6E+02		Changes Made		Comments
Date of Change Chemical Parameter 9/12/2005 cyanide Surface Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Changes Made Comments previous value: changed to: 1.4E+02 μg/L Change Generical Parameter Change Gichloroethylene;1,2-,trans Surface Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Changes Made Comments previous value: changed to: 1.4E+05 μg/L Date of Changes Made Change Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Value: changed to: Researched-No Data Comments Changes Made Changed to: Researched-No Data Comments Date of Change Ch	•	_	μg/L	
Change 9/12/2005 cyanide Surface Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Changes Made Comments Previous value: changed to: 1.4E+02 µg/L Date of Changes Made Comments Change Water Act §304 Change Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Change Water Act §304 Changes Made Comments Previous 7.E+02 µg/L changed to: 1.4E+05 µg/L Date of Changes Made Parameter Change Made Comments Parameter Change Made Comments Parameter Change Made Parameter Change Change Made Comments Parameter Change R/25/2005 nickel soluble salts Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments Parameter Change Researched-No Data Date of Chemical Parameter Change Change Researched-No Data Date of Chemical Parameter Change Chemical Parameter	changed to:	1.6E+02	μg/L	
Gy/12/2005 cyanide Surface Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Changes Made Comments Previous value: changed to: 1.4E+02 μg/L Date of Change Chemical Parameter Changes Made Comments Previous value: changed to: 7.E+02 μg/L Date of Change Chemical Parameter Change Made Comments Parameter Changes Made Comments Previous value: changed to: Changes Made Comments Previous value: changed to: Researched-No Data Date of Chemical Parameter Change Chemical Parameter C		Chemical		Parameter
Previous value: changed to: 1.4E+02 μg/L		cyanide		
Previous value: changed to: 1.4E+02 μg/L		Changes Made		Comments
Changed to: 1.4E+02 μg/L Date of Change Chemical Parameter 9/12/2005 dichloroethylene;1,2-,trans Surface Water ARAR - Human Health - Fresh Water - Clean Water Act §304 Changes Made Comments previous value: changed to: 1.4E+05 μg/L Date of Changes Chemical Parameter Changes Made Comund Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: changed to: Researched-No Data Date of Chemical Researched-No Data Parameter Chemical Parameter Chemical Parameter Chemical Parameter Change 8/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula	•	_	μg/L	
Change 9/12/2005 dichloroethylene;1,2-,trans Surface Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Changes Made Comments previous value: changed to: 7.E+02 μg/L Date of Change Chemical Parameter B/25/2005 nickel soluble salts Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: changed to: 1.E-01 mg/L Date of Chemical Change Parameter Date of Chemical Change Chemical Parameter B/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula		1.4E+02	μg/L	
Change 9/12/2005 dichloroethylene;1,2-,trans Surface Water ARAR - Human Health – Fresh Water – Clean Water Act §304 Changes Made Comments previous value: changed to: 7.E+02 μg/L Date of Change Chemical Parameter B/25/2005 nickel soluble salts Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: changed to: 1.E-01 mg/L Date of Chemical Change Parameter Date of Chemical Change Chemical Parameter B/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula				
Changes Made Comments Previous value: changed to: 1.4E+05 Date of Chemical Parameter Change 8/25/2005 Changes Made Comments Parameter Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: changed to: Researched-No Data Date of Chemical Parameter Changes Made Comments Parameter Surface Water, Method C, Non-Carcinogen, Standard Formula		Chemical		Parameter
previous value: changed to: 1.4E+05 Date of Chemical Change 8/25/2005 nickel soluble salts Changes Made Parameter Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made previous value: changed to: Researched-No Data Date of Chemical Ch	9/12/2005	dichloroethylene;1,2-,trans		
previous value: changed to: 1.4E+05 Date of Chemical Change 8/25/2005 nickel soluble salts Changes Made Parameter Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made previous value: changed to: Researched-No Data Date of Chemical Ch		Changes Made		Comments
Changed to: 1.4E+05 μg/L Date of Change Chemical Parameter 8/25/2005 nickel soluble salts Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: 1.E-01 mg/L changed to: Researched-No Data Parameter Date of Change Chemical Parameter 8/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula			μg/L	
Change B/25/2005 nickel soluble salts Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: changed to: Researched-No Data Date of Chemical Parameter Change B/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula		1.4E+05	μg/L	
Change B/25/2005 nickel soluble salts Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) Changes Made Comments previous value: changed to: Researched-No Data Date of Chemical Parameter Change B/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula				_
8/25/2005 nickel soluble salts Changes Made Comments previous value: changed to: Researched-No Data Chemical Chemical Chemical Chemical Parameter Surface Water, Method C, Non-Carcinogen, Standard Formula		Chemical		Parameter
Changes Made Comments previous value: changed to: Researched-No Data Date of Chemical Parameter 8/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula		nickel soluble salts		
previous 1.E-01 mg/L value: changed to: Researched-No Data Date of Chemical Parameter Change 8/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula		Changes Made		Comments
Changed to: Researched-No Data Date of Chemical Parameter Change 8/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula		_	mg/L	Commonto
ChangeSurface Water, Method C, Non-Carcinogen, Standard Formula8/25/2005Surface Water, Method C, Non-Carcinogen, Standard Formula		Researched-No Data		
ChangeSurface Water, Method C, Non-Carcinogen, Standard Formula8/25/2005Surface Water, Method C, Non-Carcinogen, Standard Formula				
8/25/2005 dichloroethylene;1,1- Surface Water, Method C, Non-Carcinogen, Standard Formula		Chemical		Parameter
1 1/-1		dichloroethylene;1,1-	Surface Wa Value	ter, Method C, Non-Carcinogen, Standard Formula

previous	Changes Made	e μg/L	Comments
value: changed to:	F 0F + 04		
changed to.	5.8E+04	μg/L	
Date of	Chemical		Parameter Parame
Change			
8/25/2005	dichloroethylene;1,1-	Surface Water, Me Value	ethod B, Non-Carcinogen, Standard Formula
	Changes Made	<u> </u>	Comments
previous	4.2E+03	μg/L	
value: changed to:	2.3E+04	μg/L	
Date of	Chemical		Parameter
Change	Pallace de la casta	O control DM of control	the LO. New York of Control Francis
8/25/2005	dichloroethylene;1,1-	Value	thod C, Non-carcinogen, Standard Formula
	Changes Made	•	Comments
previous value:	1.6E+02	μg/L	
changed to:	8.8E+02	μg/L	
Date of Change	Chemical		Parameter
8/25/2005	dichloroethylene;1,1-	Soil, Method C, No	on-carcinogen, Standard Fomula Value, Direct
	G. G		only), industrial land use
	Changes Made		Comments
previous value:	3.2E+04	mg/kg	
changed to:	1.8E+05	mg/kg	
Date of Change	Chemical		Parameter
8/25/2005	dichloroethylene;1,1-		on-carcinogen, Standard Formula Value, Direct only), unrestricted land use
	Changes Made	.	Comments
previous value:	7.2E+02	mg/kg	
changed to:	4.E+03	mg/kg	
Date of Change	Chemical		Parameter
8/25/2005	dichloroethylene;1,1-	Oral Reference Do	ose (RfDo)
	Changes Made	<u>.</u>	Comments
previous	9.E-03	mg/kg-day	
value: changed to:	5.E-02	mg/kg-day	
Date of	Chemical		Parameter
Change 8/23/2005	chlorpyrifos	Surface Water AR	AR - Aquatic Life - Marine/Acute - Clean Water
		Act §304	
	Changes Made		Comments
previous value:	0.E+00	μg/L	
changed to:	1.1E-02	μg/L	
	01 1 1		Parameter
	Chemical		
Change	bromoform		AR - Federal Maximum Contaminant Level Goa
Date of Change 8/22/2005		Ground Water ARA (MCLG)	AR - Federal Maximum Contaminant Level Goa
Change 8/22/2005	bromoform Changes Made	(MCLG)	AR - Federal Maximum Contaminant Level Goa
Change	bromoform	(MCLG)	
Change 8/22/2005 previous	bromoform Changes Made	(MCLG)	
Change 8/22/2005 previous value:	Changes Made 0.E+00	(MCLG) mg/L	

3/22/2005	fluoride	Ground Wat Value	er, Method C, Non-carcinogen, Standard Formula
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	2.1E+03	μg/L	
-		1.0	
Date of Change	Chemical		Parameter
3/22/2005	fluoride	Ground Wat Value	er, Method B, Non-carcinogen, Standard Formula
	Changes Made		Comments
orevious	Researched-No Data		
value: changed to:	9.6E+02	μg/L	
orianged to.	J.OL 1 02	μ9/ ⊑	
Date of	Chemical		Parameter
Change 3/22/2005	fluoride	Inhalation C	orrection Factor (INH)
n	пионис	TITIAIAIIUII C	on solion i dotor (nam)
	Changes Made		Comments
orevious	Researched-No Data		
value: changed to:	1.E+00	unitless	
J 101	, 		
Date of	Chemical		Parameter
Change	horon	Interior	oforence Doog (DID)
8/18/2005	boron	Innalation R	eference Dose (RfDi)
	Changes Made		Comments
previous	Researched-No Data		
value: changed to:	5.7E-03	mg/kg-day	
mangeu tu.	J./L UJ	iliy/ ky-udy	
Date of	Chemical		Parameter
Change			
2/19/2005	horon	Ground Ma	or Mothod C. Non carainagen Standard Farmula
3/18/2005	boron	Ground Wat Value	er, Method C, Non-carcinogen, Standard Formula
3/18/2005	Changes Made		cer, Method C, Non-carcinogen, Standard Formula Comments
orevious			
	Changes Made	Value μg/L	
orevious value:	Changes Made 3.2E+03	Value	
orevious value: changed to:	Changes Made 3.2E+03	Value μg/L	
orevious value: changed to: Date of Change	Changes Made 3.2E+03 7.E+03 Chemical	Value μg/L μg/L	Comments Parameter
orevious /alue: changed to: Date of Change	Changes Made 3.2E+03 7.E+03	Value μg/L μg/L Soil, Method	Comments
orevious value: changed to: Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made	Value μg/L μg/L Soil, Method Contact (ing	Comments Parameter Comments Parameter Comments
Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron	Value μg/L μg/L Soil, Method	Comments Parameter C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
orevious value: changed to: Date of Change 8/18/2005 previous value:	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made	Value μg/L μg/L Soil, Method Contact (ing	Comments Parameter C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
orevious value: changed to: Date of Change 8/18/2005 orevious value:	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05	Value μg/L μg/L Soil, Method Contact (ing	Comments Parameter C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
Date of Change B/18/2005 Date of Change B/18/2005 Drevious value: Changed to:	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05	Value μg/L μg/L Soil, Method Contact (ing	Comments Parameter C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
Date of Changed to: Date of Change By 18/2005 Date of Change Date of Change Change do: Date of Change Change do:	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg	Parameter Comments Comments Comments Comments Comments Comments Parameter B B, Non-carcinogen, Standard Formula Value, Direct
Date of Changed to: Date of Change B/18/2005 Drevious Value: Changed to: Date of Change Change	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg	Parameter Consider the Control of t
Date of Changed to: Date of Change B/18/2005 Date of Change B/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing	Parameter Comments Comments Comments Comments Comments Comments Parameter B B, Non-carcinogen, Standard Formula Value, Direct
Date of Change 8/18/2005 Date of Change 8/18/2005 Date of Change 8/18/2005 Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg	Parameter B C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use Comments Parameter B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
Date of Change 8/18/2005 Date of Change 8/18/2005 Date of Change 8/18/2005 Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing	Parameter B C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use Comments Parameter B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
Date of Change 3/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made 7.2E+03 1.6E+04	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg mg/kg mg/kg	Parameter I C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use Comments Parameter I B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments
Date of Change 8/18/2005 Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made 7.2E+03	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg mg/kg mg/kg	Parameter B C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use Comments Parameter B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
Date of Change 8/18/2005 Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made 7.2E+03 1.6E+04	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing mg/kg mg/kg mg/kg mg/kg mg/kg	Parameter I C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use Comments Parameter I B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments
Date of Change 8/18/2005 Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made 7.2E+03 1.6E+04 Chemical	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing mg/kg mg/kg	Parameter Consider the Constraint of the Constr
Date of Change 8/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made 7.2E+03 1.6E+04 Chemical boron	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing mg/kg mg/kg mg/kg mg/kg mg/kg	Parameter Comments Consider the street of
Date of Change 3/18/2005	Changes Made 3.2E+03 7.E+03 Chemical boron Changes Made 3.2E+05 7.E+05 Chemical boron Changes Made 7.2E+03 1.6E+04 Chemical boron	Value μg/L μg/L Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing mg/kg mg/kg mg/kg mg/kg mg/kg	Parameter Comments Comments Comments Comments Parameter B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use Comments Comments Comments Comments

Date of Change	Chemical		Parameter
8/18/2005	barium and compounds	Air, Method	C, Non-carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	3.5E-01	μg/m3	
changed to:	7.E+02	μg/m3	
Date of	Chemical		Parameter
Change			
8/18/2005	barium and compounds	Air, Method	B, Non-Carcinogen, Standard Formula Value
	Changes Made		Comments
previous value:	1.6E-01	μg/m3	
changed to:	3.2E+02	μg/m3	
Date of	Chemical		Parameter
Change		0.0.54	
8/18/2005	barium and compounds		d C, Non-carcinogen, Standard Fomula Value, Direct estion only), industrial land use
	Changes Made		Comments
previous value:	2.5E+05	mg/kg	
changed to:	7.E+05	mg/kg	
Date of	Chemical		Parameter
Change		0 " 1	
8/18/2005	barium and compounds		B B, Non-carcinogen, Standard Formula Value, Direct estion only), unrestricted land use
	Changes Made		Comments
previous value:	5.6E+03	mg/kg	
changed to:	1.6E+04	mg/kg	
Date of	Chemical		Parameter
Change 8/18/2005	barium and compounds	Ground Wat	er, Method C, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 2.5E+03	μg/L	Comments
value:			
changed to:	7.E+03	μg/L	
Date of	Chemical		Parameter
Change 8/18/2005	barium and compounds		er, Method B, Non-carcinogen, Standard Formula
		Value	
previous	Changes Made 1.1E+03	μg/L	Comments
value:			
changed to:	3.2E+03	μg/L	
Date of Change	Chemical		Parameter
8/18/2005	barium and compounds	Inhalation R	eference Dose (RfDi)
	Changes Made		Comments
previous	1.E-04	mg/kg-day	
value: changed to:	2.E-01	mg/kg-day	
Date of	Chamisal		Davamatar
Change	Chemical		Parameter
8/17/2005	barium and compounds	Oral Referen	nce Dose (RfDo)
	Changes Made		Comments
	Changes wade		Comments

orevious value:	7.E-02	mg/kg-day	
changed to:	2.E-01	mg/kg-day	
Date of	Chemical		Parameter
Change 3/17/2005	boron	Oral Referer	nce Dose (RfDo)
revious	Changes Made 9.E-02	mg/kg-day	Comments
/alue:			
changed to:	2.E-01	mg/kg-day	
Date of	Chemical		Parameter
Change			
3/16/2005	vinyl chloride	Oral Cancer	Potency Factor (CPFo)
	Changes Made		Comments
orevious value:	7.5E-01	kg-day/mg	
changed to:	1.5E+00	kg-day/mg	
Date of	Chemical		Parameter
Change 7/12/2005	polychlorinated biphenyls	Inhalation Ca	ancer Potency Factor (CPFi)
, _ 000	party announced dipitority	diadion of	
	Changes Made		Comments
previous	Researched-No Data		Communic
value: changed to:	2.E+00	kg-day/mg	
J 191			
Date of	Chemical		Parameter
Change			
7/12/2005	polychlorinated biphenyls	Oral Cancer	Potency Factor (CPFo)
previous	Changes Made Researched-No Data		Comments
/alue:			
changed to:	2.E+00	kg-day/mg	
Date of	Chemical		Parameter
Change			
7/6/2005	methyl tert-butyl ether	Oral Referer	nce Dose (RfDo)
previous	Changes Made Researched-No Data		Comments
/alue:		ma/ka day	
changed to:	8.6E-01	mg/kg-day	
Date of	Chemical		Parameter
Change			
6/22/2005	trichloroethylene	Air, Method	C, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious value:	5.1E+00	μg/m3	
changed to:	2.2E-01	μg/m3	
Date of	Chemical		Parameter
Change 6/22/2005	trichloroethylene	Air. Method	B, Carcinogen, Standard Formula Value
		,	
orevious	Changes Made 5.1E-01	μg/m3	Comments
/alue:			
de anno 1991	2.2E-02	μg/m3	
changed to:			
-	<u> </u>		
Changed to:	Chemical		Parameter

	Changes Made		Comments
previous	1.2E+04	mg/kg	
value: changed to:	2 25 102	mall	
changed to:	3.3E+02	mg/kg	
Date of	Chemical		Parameter
Change			
6/22/2005	trichloroethylene		d B, Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use
	Changes Made		Comments
previous	9.1E+01	mg/kg	
value: changed to:	2.5E+00	mg/kg	
	2.32.1.00	iiig/iig	
Date of	Chemical		Parameter
Change 6/22/2005	triobloroothylono	Cround Ma	tor Method C. Corningram Standard Formula Value
0/22/2005	trichloroethylene	Ground wa	ter, Method C, Carcinogen, Standard Formula Value
	Changes Made		Comments
previous	4.E+01	μg/L	
value: changed to:	1.1E+00	μg/L	
J-2 .0.		ן נפייו <u>-</u>	1
Date of	Chemical		Parameter
Change 6/22/2005	trichloroethylene	Ground Wa	ter, Method B, Carcinogen, Standard Formula Value
J			,
	Changes Made		Comments
previous value:	4.E+00	μg/L	
changed to:	1.1E-01	μg/L	
Date of	Chemical		Parameter
Change	- C. Sillioui		
6/22/2005	trichloroethylene	Surface Wa	ter, Method B, Carcinogen, Standard Formula Value
	Changes Made		Comments
orevious	5.6E+01	μg/L	Comments
value:			
changed to:	1.5E+00	μg/L	
Date of	Chemical		Parameter
Change			
Change	Chemical trichloroethylene	Bioconcentr	Parameter ation Factor (BCF)
Change	trichloroethylene		
Change 6/22/2005 previous			ation Factor (BCF)
Change 6/22/2005 previous value:	trichloroethylene Changes Made 1.1E+01	L/kg	ation Factor (BCF)
Change 6/22/2005 previous value:	trichloroethylene Changes Made		ation Factor (BCF)
Change 6/22/2005 previous value: changed to:	trichloroethylene Changes Made 1.1E+01 1.1E+01	L/kg	ation Factor (BCF) Comments
Change 6/22/2005 previous value: changed to: Date of Change	Changes Made 1.1E+01 1.1E+01 Chemical	L/kg L/kg	Comments Parameter
Change 6/22/2005 previous value: changed to: Date of Change	trichloroethylene Changes Made 1.1E+01 1.1E+01	L/kg L/kg Soil, Method	ation Factor (BCF) Comments
Change 6/22/2005 previous value: changed to: Date of Change	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene	L/kg L/kg Soil, Method	Comments Parameter d C, Carcinogen, Standard Formula Value, Direct
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical	L/kg L/kg Soil, Method	Parameter d C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03	L/kg L/kg Soil, Method Contact (ing	Comments Parameter d C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use
Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made	L/kg L/kg Soil, Method	Comments Parameter d C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02	L/kg L/kg Soil, Method Contact (ing	Parameter C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03	L/kg L/kg Soil, Method Contact (ing	Comments Parameter d C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02	L/kg L/kg Soil, Method Contact (ing mg/kg mg/kg Soil, Method	Parameter Comments Comments C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use Comments Parameter B, Carcinogen, Standard Formula Value, Direct
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical	L/kg L/kg Soil, Method Contact (ing mg/kg mg/kg Soil, Method	Parameter Comments C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use Comments Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to:	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical	L/kg L/kg Soil, Method Contact (ing) mg/kg mg/kg Soil, Method Contact (ing)	Parameter Comments Comments C, Carcinogen, Standard Formula Value, Direct Jestion only), industrial land use Comments Parameter B, Carcinogen, Standard Formula Value, Direct
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical tetrachloroethylene	L/kg L/kg Soil, Method Contact (ing) mg/kg mg/kg Soil, Method Contact (ing)	Parameter Comments Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical tetrachloroethylene Changes Made 2.E+01	L/kg L/kg Soil, Method Contact (ing) mg/kg mg/kg Soil, Method Contact (ing)	Parameter Comments Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical tetrachloroethylene	L/kg L/kg Soil, Method Contact (ing mg/kg mg/kg Soil, Method Contact (ing	Parameter Comments Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical tetrachloroethylene Changes Made 2.E+01 1.9E+00	L/kg L/kg Soil, Method Contact (ing) mg/kg mg/kg Soil, Method Contact (ing)	Parameter C. Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Parameter B. C. Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use Comments Comments Comments Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 Date of Change 6/22/2005 Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical tetrachloroethylene Changes Made 2.E+01	L/kg L/kg Soil, Method Contact (ing) mg/kg mg/kg Soil, Method Contact (ing)	Parameter Comments Comments
Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005 previous value: changed to: Date of Change 6/22/2005	Changes Made 1.1E+01 1.1E+01 Chemical tetrachloroethylene Changes Made 2.6E+03 2.4E+02 Chemical tetrachloroethylene Changes Made 2.E+01 1.9E+00	L/kg L/kg Soil, Method Contact (ing) mg/kg mg/kg Soil, Method Contact (ing) mg/kg mg/kg	Parameter C. Carcinogen, Standard Formula Value, Direct jestion only), industrial land use Parameter B. C. Carcinogen, Standard Formula Value, Direct jestion only), unrestricted land use Comments Comments Comments Comments

previous value:	8.6E+00	μg/L	
changed to:	8.1E-01	μg/L	
	·		
Date of Change	Chemical		Parameter
6/22/2005	tetrachloroethylene	Ground Wat	er, Method B, Carcinogen, Standard Formula Value
	Ol su us Mala	•	0
previous	Changes Made 8.6E-01	μg/L	Comments
value:			
changed to:	8.1E-02	μg/L	
Date of	Chemical		Parameter
Change 6/22/2005	tetrachloroethylene	Surface Wat	ter, Method C, Non-Carcinogen, Standard Formula
0,22,2000	tottaoriiorootifyiorio	Value	ior, monioa o, rron caromogon, otaniaara i omitala
	Changes Made		Comments
previous	2.1E+03	μg/L	
value: changed to:	2.1E+03	μg/L	
onangou to:	2.12.103	μ9/ Ε	
Date of	Chemical		Parameter
Change 6/22/2005	tetrachloroethylene	Surface Wat	ter, Method C, Carcinogen, Standard Formula Value
UI	totraomoroettiylelle	Curiace vval	or, mounded of Carolinogen, Standard Formula Value
provious	Changes Made		Comments
previous value:	1.E+02	μg/L	
changed to:	9.7E+00	μg/L	
Date of Change	Chemical		Parameter
6/22/2005	tetrachloroethylene	Surface Wat	ter, Method B, Carcinogen, Standard Formula Value
	-		
previous	Changes Made 4.2E+00	μg/L	Comments
value:			
changed to:	3.9E-01	μg/L	
Date of	Chemical		Parameter
Change			
6/22/2005	tetrachloroethylene	Surface Wat	ter, Method B, Non-Carcinogen, Standard Formula
	Changes Made		Comments
previous	8.5E+02	μg/L	Comments
value: changed to:	8.4E+02	μg/L	
changed to.	0.76 1 02	μ9/ Ε	
Date of	Chemical		Parameter
Change 6/22/2005	tetrachloroethylene	Bioconcentra	ation Factor (BCF)
	-	1	,
previous	Changes Made 3.1E+01		Comments
value:		L/kg	
changed to:	3.1E+01	L/kg	
	1		_
Date of Change	Chemical		Parameter
6/22/2005	trichloroethylene	Surface Wat	ter, Method C, Carcinogen, Standard Formula Value
<u>—</u>	Changes Made		Comments
previous	1.4E+03	μg/L	Comments
value:			
changed to:	3.7E+01	μg/L	
	-		
Date of Change	Chemical		Parameter
6/15/2005	trichloroethylene	Oral Cancer	Potency Factor (CPFo)
0/10/2000	·	•	
0/10/2000	OL		0
previous	Changes Made	kg-day/mg	Comments

changed to:	4.E-01	kg-day/mg	
Date of Change	Chemical		Parameter
6/15/2005	trichloroethylene	Inhalation C	cancer Potency Factor (CPFi)
previous value: changed to:	Changes Made 1.7E-02 4.E-01	kg-day/mg	Comments
onanged to:	T.L 01	kg ddy/mg	
Date of Change	Chemical		Parameter
5/18/2005	methyl naphthalene;2-	Vapor Press	sure (VP)
		'	
previous	Changes Made 6.8E-02	mmHg	Comments
value:	0.0L-02	IIIIIII IG	
changed to:	5.5E-02	mmHg	
Date of	Chemical		Parameter
Change 5/18/2005	naphthalene	Vapor Press	sure (VP)
0/ 10/2000	парпилаюте	vapui F188	ouio (vi <i>)</i>
-	Changes Made		Comments
previous value:	7.5E-02	mmHg	converted 0.01 kPA (as listed in HSDB) to mm Hg 1/3/2003
changed to:	8.5E-02	mmHg	
Date of	Chemical		Parameter
Change			
3/2/2005	tetrachloroethylene	Inhalation C	ancer Potency Factor (CPFi)
previous	Changes Made Researched-No Data		Comments
value: changed to:	2.1E-02	kg-day/mg	
changed to.	Z.1L-0Z	kg-uay/mg	
Date of Change	Chemical		Parameter
3/2/2005	tetrachloroethylene	Oral Cancer	r Potency Factor (CPFo)
previous	Changes Made 5.1E-02	kg-day/mg	Comments
value:			
changed to:	5.4E-01	kg-day/mg	
Date of	Chemical		Parameter
Change 2/9/2005	nitrite	Soil Method	d B, Non-carcinogen, Standard Formula Value, Direct
_, 0, 2000	········		pestion only), unrestricted land use
	Changes Made		Comments
previous	8.E+03	mg/kg	Comments
value:			
changed to:	1.3E+05	mg/kg	
Date of Change	Chemical		Parameter
2/9/2005	trichloroethylene	Inhalation R	eference Dose (RfDi)
previous	Changes Made Researched-No Data		Comments
value:			
changed to:	1.E-02	mg/kg-day	
Date of	Chemical		Parameter
	trichloroethylene	Oral Datara	neo Doso (PfDo)
Change		Uiai Keiere	nce Dose (RfDo)
Change 2/9/2005	themoroeutylene	•	
2/9/2005	Changes Made		Comments
2/9/2005 previous			Comments
2/9/2005	Changes Made	mg/kg-day	Comments

Date of Change	Chemical		Parameter
2/9/2005	xylenes	Inhalation Re	eference Dose (RfDi)
	Changes Made		Comments
orevious	Researched-No Data		Comments
value: changed to:	2.9E-02	mg/kg-day	
	'	, J. J/	
Date of	Chemical		Parameter
2/9/2005	xylenes	Oral Referen	nce Dose (RfDo)
2/3/2003	Ayleries	Olai Noicici	ec bosc (Nibo)
•	Changes Made	4 1	Comments
previous value:	2.E+00	mg/kg-day	
changed to:	2.E-01	mg/kg-day	
Date of	Chemical		Parameter
Change 2/9/2005	benzene	Oral Referen	nce Dose (RfDo)
<u> </u>	SOLIZOHO	Jiai Neielel	55 5555 (1156)
<u>.</u>	Changes Made		Comments
previous value:	3.E-03	mg/kg-day	
changed to:	4.E-03	mg/kg-day	
Date of Change	Chemical		Parameter
12/21/2004	biphenyl;1,1-	Inhalation Re	eference Dose (RfDi)
provious	Changes Made		Comments
previous value:	Researched-No Data		
changed to:	5.E-02	mg/kg-day	
Date of	Chemical		Parameter
Change			
12/21/2004	ethylbenzene	Inhalation Re	eference Dose (RfDi)
	Changes Made		Comments
previous	2.9E+00	mg/kg-day	
value: changed to:	2.9E-01	mg/kg-day	
		/	
Date of	Chemical		Parameter
Change 12/10/2004	nitrate	Oral Referen	nce Dose (RfDo)
			/
	Changes Made	0	Comments
•	Changes Made 1.E-01	mg/kg-day	Comments
value:	_	mg/kg-day	Comments
value: changed to:	1.E-01 1.6E+00		Comments
value: changed to:	1.E-01		Comments Parameter
value: changed to: Date of Change	1.E-01 1.6E+00	mg/kg-day	
previous value: changed to: Date of Change 12/1/2004	1.E-01 1.6E+00 Chemical	mg/kg-day	Parameter er ARAR - Human Health – Fresh Water – Clean
value: changed to: Date of Change	1.E-01 1.6E+00 Chemical trichlorobenzene;1,2,4-	mg/kg-day Surface Wat	Parameter er ARAR - Human Health – Fresh Water – Clean
value: changed to: Date of Change 12/1/2004	1.E-01 1.6E+00 Chemical	mg/kg-day Surface Wat	Parameter er ARAR - Human Health – Fresh Water – Clean
Date of Change 12/1/2004 previous value:	1.E-01 1.6E+00 Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02	mg/kg-day Surface Wat Water Act §3	Parameter er ARAR - Human Health – Fresh Water – Clean
Date of Change 12/1/2004 Drevious value:	1.E-01 1.6E+00 Chemical trichlorobenzene;1,2,4- Changes Made	mg/kg-day Surface Wat Water Act §3	Parameter er ARAR - Human Health – Fresh Water – Clean
Date of Change 12/1/2004 previous value: changed to:	1.E-01 1.6E+00 Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02	mg/kg-day Surface Wat Water Act §3	Parameter er ARAR - Human Health – Fresh Water – Clean
Date of Changed to: Date of Change 12/1/2004 previous value: changed to: Date of Change	Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02 3.5E+01 Chemical	mg/kg-day Surface Wat Water Act §3 µg/L µg/L	Parameter er ARAR - Human Health – Fresh Water – Clean 804 Comments Parameter
Date of Changed to: Date of Change 12/1/2004 previous value: changed to: Date of Change	1.E-01 1.6E+00 Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02 3.5E+01	mg/kg-day Surface Wat Water Act §3 µg/L µg/L	Parameter er ARAR - Human Health – Fresh Water – Clean 304 Comments Parameter er ARAR - Human Health – Fresh Water – Clean
Date of Changed to: Date of Change 12/1/2004 previous value: changed to: Date of Change	Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02 3.5E+01 Chemical thallium, soluble salts	mg/kg-day Surface Wat Water Act §3 µg/L µg/L Surface Wat	Parameter er ARAR - Human Health – Fresh Water – Clean 804 Comments Parameter er ARAR - Human Health – Fresh Water – Clean 804
Date of Changed to: Date of Change 12/1/2004 previous value: changed to: Date of Change 12/1/2004	Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02 3.5E+01 Chemical thallium, soluble salts Changes Made	mg/kg-day Surface Wat Water Act §3 µg/L µg/L Surface Wat Water Act §3	Parameter er ARAR - Human Health – Fresh Water – Clean 304 Comments Parameter er ARAR - Human Health – Fresh Water – Clean
value: changed to: Date of Change	Chemical trichlorobenzene;1,2,4- Changes Made 2.6E+02 3.5E+01 Chemical thallium, soluble salts	mg/kg-day Surface Wat Water Act §3 µg/L µg/L Surface Wat	Parameter er ARAR - Human Health – Fresh Water – Clean 304 Comments Parameter er ARAR - Human Health – Fresh Water – Clean 304

Date of Change	Chemical	Parameter
8/6/2004	acetone cyanohydrin	Soil, Method B, Non-carcinogen, Standard Formula Value, Direct
		Contact (ingestion only), unrestricted land use

	Changes Made		Comments
previous value:	6.4E+01	mg/kg	
changed to:	6.4E+01	mg/kg	

Date of Change	Chemical	Parameter
7/1/2004	carbon disulfide	Inhalation Correction Factor (INH)

	Changes Made		Comments
previous value:	2.E+00	unitless	
changed to:	2.E+00	unitless	

Date of Change	Chemical	Parameter
7/1/2004	propylene glycol monoethyl ether	Inhalation Correction Factor (INH)

	Changes Made		Comments
previous value:	2.E+00	unitless	Based on chemical similiarities with other propylene glycols.
changed to:	2.E+00	unitless	Based on chemical similiarities with other propylene glycols.

Date of Change	Chemical	Parameter
6/25/2004	thallic oxide	Inhalation Correction Factor (INH)

	Changes Made		Comments
previous value:	1.E+00	unitless	Thalliumsolublesalt.
changed to:	1.E+00	unitless	Thalliumsolublesalt.